ENTERTAINMENT LIGHTING SERVICES

SALES CATALOG

Lighting / Audio / Video / Rigging / Expendables

About ELS

Proudly serving the community since 1977, ELS provides top quality equipment, and unparalleled customer service to the Film, Theater, Exhibit, Touring, Retail, Hospitality and Themed Environment industries. Our clients include schools, houses of worship, casinos, theaters, retail stores, hotels, and many more.

In addition to stocking thousands of lighting, audio and video products for Sales and Rentals, ELS offers complete turn-key services including system design and integration, installation, project management, service and training support. Building on its reputation for thorough and professional work, our Systems Integration Department is capable of taking your project from concept to completion, on-time and on-budget.

Your satisfaction is our goal. We look forward to being a resource for all of your lighting, audio and video needs.

ENTERTAINMENT LIGHTING SERVICES
11440 Sheldon Street, Sun Valley, CA 91352

Office Hours:
Monday-Friday: 8:30 AM to 5:30 PM
Saturday: 10:00 AM to 2:00 PM

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The normal ELS business hours are 8:30 AM to 5:30 PM, Monday through Friday, and 10:00 AM to 2:00 PM on Saturdays. Please note that our hours of operation may vary over holiday weekends.

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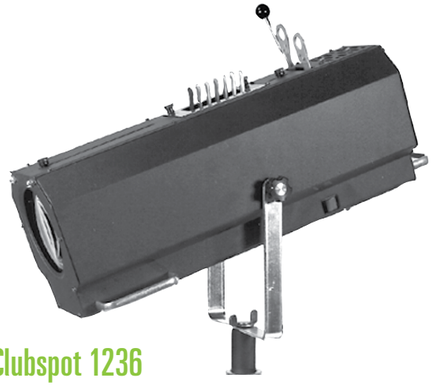


Lycian Clubspot 1236

Good for throws from 20' to 60', with big value in a short-range spot! The Clubspot is ideal for nightclubs, schools, churches, and speaking venues. With an integral six color boomerang, pan and tilt capability, and variable focal length optics, spot or flood focus. You'll get high performance, easy handling, and stable, flicker-free operation, thanks to the inductive power supply, which draws less than 4.5 Amps at 120 VAC. Comes complete with either a rolling tripod or a table base, and power cable with PBG/U-Ground connector. Also available in a 240 Volt model. Accepts a powerful 360 Watt FLE halogen lamp, which is not included.

Clubspot 1236	LY-1236
FLE 360W - 82V 3200°K, 75hr	905-620

Lycian Super Clubspot 1238

Good for short throws from 20' to 60', the Lycian Super Clubspot is a complete, economically priced followspot perfectly suited for small to midsize venues. A professional quality, high performance halogen followspot that outperforms anything in its class. Comes with rolling tripod, six color boomerang, heavy-duty iris, variable focal lengths, inductive power supply for flicker free operation, and power cable with PBG/U-Ground connector. Made of heavy-gauge cold rolled steel and extruded aluminum housing. Lamp not included.

Clubspot 1238	LY-1238
FLE 360W - 82V 3200°K, 75hr	905-620

See Followspot Comparison Chart on Page 4.

Altman Comet

Good for medium to long throws from 40' to 125', the ruggedly constructed Comet produces hard or soft-edged beams with a zoom from 2.3° to 12.2°. Altman's Comet comes with top-operated framing, iris and dimmer controls, dual adjustable lenses, an adjustable castered stand, spring-loaded self-canceling boomerang, and removable 25' power cable with PBG/U-Ground connector. Includes the high performance 360 Watt FLE halogen lamp.

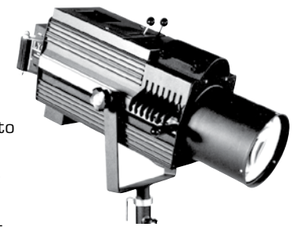
Comet	AL-COMET
FLE 360W - 82V 3200°K, 75hr	905-620

Altman 1000Q

The 1000Q performs well in short to medium range throws from 40' to 125'. It uses a rear operating system, with a six color boomerang and dowser, a height adjustable castered stand with a pan and tilt adjustable yoke, and a 25' power cable with PBG/U-Ground connector. This followspot accepts the 1kW FEL tungsten halogen lamp, which is not included.

1000Q	AL-1000Q
FEL 1kW - 120V 3200°K, 375hr	963-200

Lycian Midget 2kW 1207



Good for throws from 40' to 120', Lycian's 2kW quartz followspot is 30% brighter and yields 50% more light than their standard Midget 1206. Comes with a self-canceling color boomerang, fully adjustable castered tripod, gobo slot, and a 12' 12/3 power cord with PBG/U-Ground connector. The followspot draws 20 Amps at 120 Volts AC and is UL listed. Lamp not included.

Midget 1207	LY-1207
CYX 2kW - 120V 3200°K, 350hr	975-040

Fixtures Followspots

Lycian Midget HP 1209

Good for throws from 80' to 200', Midget HP offers long life, high performance, ease of use, and wonderful versatility. An excellent choice as a front-of-house followspot for small theatres, hotels, schools and churches.This model includes an automatic, self-canceling boomerang, nichrome heavy-duty iris, spread lens system, adjustable brakes for pan and tilt, durable epoxy finish, and power cord with PBG/U-Ground connector. Easy access for either an MSR 575HR or HMI 575 Watt SE long-life metal halide lamp, not included.

Midget HP 1209	LY-1209
MSR 575HR 5600°K	902-410
HMI 575W 5600°K SE	900-030

Lycian Super Arc 400

As a front-of-house instrument, the 1266 model Super Arc 400 gives a powerful, tight head spot at 150', while onstage it can flood throws as short as 20'. The Long Throw 1267 model is ideal from 150' to 450'. Both units enable back or side operation and feature a folding leg base with leveling jacks. Adjustable power supply for balancing fixture intensity draws less than 9 Amps at 120 Volts AC, 60 Hz. Includes PBG/U-Ground power cord. Both models use the stable 5600Ð Kelvin HTI-400/24 lamp, not included.

SuperArc	
Short Throw 1266	LY-1266
Long Throw 1267	LY-1267
HTI 400W - 55V 5600°K, 250hr	902-600

Altman Voyager

A sturdy followspot from Altman. The Voyager works well in throws from 100' to 200', while the Voyager Short Throw model is ideal for throws from 60' to 150'. Both units have individually adjustable lenses for narrow-hard or soft-edged beams. The ball bearing slide assembly eases flood to spot zoom focus. The fine focus control assures a clean, halation-free beam. Both feature an eight lever, six color self-canceling color boomerang, dowser, castered stand with leveling jacks, pan and tilt adjustable yoke, and a PBG/U-Ground power cord. Designed for use with the Osram HTI 400 Watt lamp, which is included.

Voyager	AL-VOYAGER
HTI 400W - 5600°K	902-600

Lycian Starklite

Small and light, but big in terms of output, the Lycian Starklite is perfect for short throw applications. A six color boomerang, iris, and interchangeable short, medium and long throw lenses allow for a variety of beam options. With both front and rear controls and the ability to accept board operated control modules, as well as easy switching between stand and truss mounting, the Starklite clearly shines as an outstanding and versatile unit.
Starklite comes with a castered stand with a pan and tilt adjustable yoke, and a superb universal power supply. Remote ballast comes with a 10' PBG/U-Ground power cable and a 6' cable connecting ballast to fixture. The followspots use a 1.2kW HMI DE lamp, which is not included. Add lens assembly from list below.

Starklite	
Starklite	LY-1271
Starklite II (50'-150' lens)	LY-1272
HMI 1.2kW - 100V 6000°K DE, 750hr	900-140
1271 Lens Assemblies:	
Short Lens 20'-80'	LY-127-115
Medium Lens 40'-100'	LY-127-114

Lycian Superstar 1275

Good for throws from 150' to 350', Lycian's Superstar is a versatile 1.2kW HMI followspot. Despite a self-contained ballast and heavy-duty steel and aluminum housing, the Superstar is lightweight and easily transported. Its single lever zoom lens, iris, horizontal shutters and dowser make for easy focusing adjustments. A sturdy color boomerang, three-legged castered base with leveling jacks, and a pan and tilt adjustable yoke are standard. The Superstar accepts a 1200-HB metal halide lamp, but a 1.2kW HMI lamp can be substituted with reduced output results. Lamp not included.

Superstar 1275	LY-1275
UMI 1200-HB - 100V 5600°K, 750hr	902-700
HMI 1.2kW - 24V 5600°K, 750hr	900-141

Strong-Xenotech Super Trouper II

Ideal for throws from 50' to 360', the Trouper II produces 10% more light in a structure that is 20% lighter and 25% smaller than comparable units. Includes six color boomerang with filters, cold metal reflector, remote on/off, nichrome steel iris, spot sizing with edge focus, horizontal masking, and manual dimming, plus height and vertical/horizontal adjustment controls and an arc viewing port on the lamphouse door.
The unit's pulse igniter operates only from DC open circuit voltage, so there's no separate AC control circuit. Digital DC display features a "troubleshooting" readout. Power supply draws 25 Amps from 220 VAC power. The followspot uses a powerful 2kW Xenon lamp, not included.

Super Trouper II	STR-240-001
Xenon 1.6kW - 19V 5500°K, 1500hr	901-040
Xenon 2.0kW - 24V 6000°K, 1500hr	901-050

Followspot Compartison Chart

	20'	30'	40'	50'	60'	80'	100'	120'	125'	150'	200'	300'	360'	450'	
Altman 1000Q	3.5' 1030		7' 258		10.5' 114	14' 64	17.5' 41		21.9 26						max spot diam footcandles
Altman Comet			5' 500		7.4' 222	9.9' 125	12.6' 80		15.7' 51	18.9' 36					max spot diam footcandles
Altman Voyager							1.7' 850		2.2' 544	2.6' 378	3.5' 213				max spot diam footcandles
Lycian Clubspot 1236	2.5' 900		5' 225		7.5' 100	10' 56	12.5' 36								max spot diam footcandles
Lycian Midget 1207			.67' 344		1' 153	1.3' 86	1.7' 55	35' 2							max spot diam footcandles
Lycian Super Arc 400 1266	.42' 6390		.83' 1598		1.25' 710		2.1' 256			3.2' 114	4.2' 50				max spot diam footcandles
Lycian Super Arc 400 1267							.83' 1395			1.25 620	1.7' 349	2.7' 155		3.7' 68	max spot diam footcandles
Lycian Midget HP 1209			.54' 906		.87' 403		1.42' 145			2.6' 58	2.9' 35				max spot diam footcandles
Lycian Starklite 1271 (medium lens)		5.4' 1031	7' 580	9' 371		14.5' 145									max spot diam footcandles
Lycian Starklite 1272	4.8' 4016		9.6' 1004	12' 643	14.4' 446		7' 161		9' 103	14.5' 71					max spot diam footcandles
Lycian Superstar 1275							6.6' 1125			9.9' 500	13.2' 281	19.8' 125		29.7' 56	max spot diam footcandles
Lycian 1290 XLT							6' 1300			9' 578	12' 325	18' 144		27' 64	max spot diam footcandles
Strong Truss Trooper (medium lens)	3.5' 2500		7' 625	8.8' 400	10.5' 279	14' 156	17.5' 100		22.8' 59	26.3' 44					max spot diam footcandles
Strong Super Trouper II				3.6' 5200			7.2' 1300	8.6' 903	10.8' 578		14.4' 325	21.6' 144	25.9 100		max spot diam footcandles

Photometric data provided by manufacturer.

ETC Source Four Ellipsoidal Spotlights

The Source Four from ETC is a high performance ellipsoidal reflector spotlight with innovative features that allow this fixture to outperform the competition. The Source Four is the only fixture combining the energy-saving power of the HPL lamp with a patented dichroic reflector for the cleanest and whitest beam on the market. The efficient reflector in conjunction with a superior optical system reduces the operating temperature of the fixture. This means you'll get longer life from your patterns, shutters, and accessories, from a 575 Watt fixture which produces 45% more light than conventional 1kW ellipsoidals. The Source Four also offers a rotating shutter gate assembly that allows for a wide range of shuttering and beam shape options. The Source Four is solidly constructed of die cast aluminum with high impact insulated knobs and controls, and a steel yoke. The fixtures ship with a c-clamp, color frame, and 36" insulated 3-wire cable lead. Lamp and connector are not included.

With the Source Four Zoom you only need one fixture to achieve a variety of field angles. ETC's patented one-handed zoom operation makes adjustments quick, simple and safe. Technicians can focus with one hand and hold the ladder with the other. And the lens tube door provides quick and easy access when you want to clean the lens assembly (tool-free!).

The power of Source Four in a compact and economical size! The Source Four Jr. uses the same technology that made the Source Four famous. That means unsurpassed imaging and beam quality. Compared to conventional 1000W ellipsoidal spotlights, Source Four Jr's 575 Watts deliver brighter light.

ETC Source Four 5° Ellipsoidal

ETC Source Four 25° -50° Zoom

Source Four Ellipsoidal Spotlights	
50° Source Four	ETC-706-0A1-010
36° Source Four	ETC-706-0A1-009
26° Source Four	ETC-706-0A1-008
19° Source Four	ETC-706-0A1-007
10° Source Four	ETC-706-0A1-006
5° Source Four	ETC-706-0A1-005
25°-50° Source Four Zoom	ETC-706-0A1-042-0X
15°-30° Source Four Zoom	ETC-706-0A1-040-0X

19°-50° Source Four Accessories:	
Filter Frame 6¼" (included)	PRX-6CF
C-Clamp (included)	165-015
Safety Cable 30"	167-020
Pattern Holder A	PRX-PHA
Pattern Holder B	PRX-PHB
Drop-in Iris	PRX-IRIS-S424
Donut 6¼"	PRX-6DN
Snoot 6¼"	PRX-TH5

Source Four Zoom Accessories:	
Filter Frame 7½" (included)	PRX-7CF
Donut 7½"	PRX-7DN
Snoot 7½"	PRX-7TH-6

10° Source Four Accessories:	
Filter Frame 12" (included)	PRX-12CF
Donut 12"	PRX-12DN
Snoot 12"	PRX-12TH-10

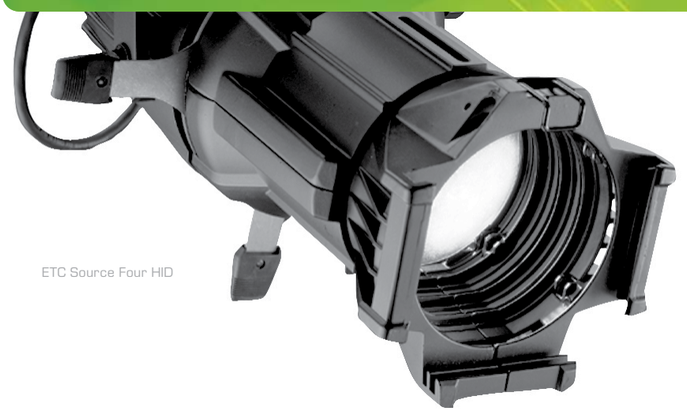
5° Source Four Accessories:	
Filter Frame 14" (included)	PRX-14CF
Donut 14"	PRX-14DN
Snoot 14"	PRX-14TH-12

Lamps:	
HPL 750W - 115 V/X	
3050°K, 1000hr	902-517
HPL 575W 115 V/X	
3050°K, 2000hr	902-506

Source Four Jr.	
50° Source Four Jr.	ETC-706-2A1-003
36° Source Four Jr.	ETC-706-2A1-002
26° Source Four Jr.	ETC-706-2A1-001
25°-50° Source Four Jr. Zoom	ETC-706-2A1-009

Source Four Jr Accessories:	
Filter Frame 6¼" (included)	PRX-6CF
C-clamp (included)	161-015
Patter Holder "M"	PRX-PHM
Drop-in Iris	PRX-IRIS-S424
Donut 6¼"	PRX-6DN

Lamps:	
HPL 375W - 115 V/X	
3200°K, 2000hr	902-503
HPL 575 W - 115 V/X	
3050°K, 2000hr	902-506



ETC Source Four HID

Strand SL Coolbeam Spotlight

ETC Source Four HID Architectural Ellipsoidal

This 150 Watt metal halide fixture gives you all of Source Four's famous attributes, including cool beam, excellent imaging, crisp pattern projection, and bright, even field. Its long-life 9,000-hour lamp means low maintenance, so it's perfect for those locations that can't be reached often or easily. Available in black, white or custom colors, Source Four HID features a variety of field angles to choose from, yoke mount, electronic ballast, a multi-faceted glass reflector, interchangeable lens tubes, rotating barrel, three-plane stainless-steel shutter blade assembly, and die-cast aluminum construction. (If you need a compact version for space savings, there's Source Four Junior HID.) Filter frame and lamp are included. Please note that Source Four HID is a non-dimmable fixture.

Source Four HID Architectural Ellipsoidals	
50° Source Four HID	ETC-706-0A1-055-0X
36° Source Four HID	ETC-706-0A1-054-0X
26° Source Four HID	ETC-706-0A1-053-0X
19° Source Four HID	ETC-706-0A1-052-0X
10° Source Four HID	ETC-706-0A1-051-0X
5° Source Four HID	ETC-706-0A1-050-0X
HID Zoom	ETC-706-0A1-057-0X
HID Zoom	ETC-706-0A1-056-0X

19°-50° Source Four HID Accessories:	
Filter Frame 6¼"	PRX-6CF
C-Clamp	165-015
Safety Cable 30"	167-020
Pattern Holder A	PRX-PHA
Pattern Holder B	PRX-PHB
Drop-in Iris	PRX-IRIS-S424
Donut 6¼"	PRX-6DN
Snoot 6¼"	PRX-6TH-5

Source Four HID Zoom Accessories:	
Filter Frame 7½"	PRX-7CF
Donut 7½"	PRX-7DN
Snoot 7½"	PRX-7TH-6

10° Source Four Accessories:	
Filter Frame 12"	PRX-12CF
Donut 12"	PRX-12DN
Snoot 12"	PRX-12TH-10

5° Source Four Accessories:	
Filter Frame 14"	PRX-14CF
Donut 14"	PRX-14DN
Snoot 14"	PRX-14TH-12

Lamp:	
CDM 150W - 96V 3000°K, 9000hr	902-490

Source Four Jr. HID	
50° Source Four Jr. HID	ETC-706-0A1-055-0X
36° Source Four Jr. HID	ETC-706-0A1-055-0X

Source Four Jr HID Accessories:	
Filter Frame 6¼" (included)	PRX-6CF
C-clamp (included)	165-015
Patter Holder "M"	PRX-PHM
Drop-in Iris	PRX-IRIS-S424
Donut 6¼"	PRX-6DN

Lamps:	
CDM 150W - 96 V 3000°K, 9000 hr	902-490

Strand SL Coolbeam Spotlights

Strand's SL Series Coolbeam Spotlight offers excellent light output, sharp gobo focus, and even, smooth light distribution. The SL's unique three plane shutter mechanism allows for sharp triangular shutter cuts. Its high efficiency dichroic glass reflector offers a truly cool beam which extends color and gobo life. The most unique feature of the SL is the full 360Ð rotation of the lens barrel, allowing the user to make difficult shutter cuts with ease. Includes filter frame, c-clamp, and a 36" 3-wire lead. Optimized for GLC 575 watt lamp in a medium 2-pin base.
Lamp and connector not included.

SL Coolbeam Spotlights	
50° SL Coolbeam Spotlight	ST-113-51
36° SL Coolbeam Spotlight	ST-113-41
26° SL Coolbeam Spotlight	ST-113-31
19° SL Coolbeam Spotlight	ST-113-21

SL Coolbeam Accessories:	
Filter Frame 6¼"	ST-181-14
C-clamp	165-015
Safety Cable 30"	167-020
Pattern Holder B	ST-181-45
Glass Pattern Holder	ST-181-45G
Drop-In Iris, 24-leaf	ST-180-49
Donut 6¼"	ST-181-43
Snoot 6¼"	ST-181-55

Lamps:	
GLC 575W - 115V 3200°K, 400hr	902-460
GLA 575W - 115V 3100°K, 1500 hr	902-470

Fixtures
Ellipsoidals

Altman 3.5" Ellipsoidal

Altman 3.5" Ellipsoidal Spotlights

Small, sturdy, and lightweight, Altman's 3.5" Ellipsoidals are useful in a variety of applications, from small theaters and nightclubs, to window displays, and museums. Good for throws between 10' and 40', these ellipsoidals come with four framing shutters, pattern slot, filter frame, c-clamp, and a 36" 3-wire lead. These fixtures utilize a medium two-pin lamp socket and are UL listed for 500 Watts. Lamp and connector not included.

3.5" Ellipsoidal	
3.5" x 6" Ellipsoidal	AL-35Q-6MT
3.5" x 8" Ellipsoidal	AL-35Q-8MT
3.5" x 10" Ellipsoidal	AL-35Q-10MT
3.5" x 12" Ellipsoidal	AL-35Q-12MT

3.5" Ellipsoidal Accessories:	
Filter Frame 4 1/8" (included)	AL-35Q-CFB
C- clamp	165-015
Safety Cable 30"	167-020
Mini Pattern Holder	AL-35Q-PH

Lamp:	
EHD 500W - 120V 2950°K, 2000hr	950-070

Ellipsoidal Comparison Chart

	1 5'	20'	30'	40'	50'	60'	
ETC 50° Source Four (575x)	8.89	11.85	17.77	23.7	29.62	35.55	max spot diam
	102	58	26	14	9	6	footcandles
ETC 36° Source Four (575x)	6.65	8.87	13.3	17.74	22.17	26.6	max spot diam
	241	135	60	34	22	15	footcandles
ETC 26° Source Four (575x)	4.48	5.98	8.97	11.96	14.95	17.93	max spot diam
	406	262	117	66	42	29	footcandles
ETC 19° Source Four (575x)	3.95	5.27	7.9	10.53	13.17	15.8	max spot diam
	845	475	211	119	76	53	footcandles
ETC 25°- 50° Source Four Zoom (750W)	6.65	8.87	13.3	17.74	22.17	26.6	max spot diam
	689	388	172	97	62	43	footcandles
ETC 15°- 30° Source Four Zoom (750W)	3.95	5.27	7.9	10.53	13.17	15.8	max spot diam
	1,578	888	394	222	142	99	footcandles
ETC 50° Source Four Jr. (575)	14.31	19.08	28.62	38.16	47.7	57.24	max spot diam
	98	55	25	14	9	6	footcandles
ETC 36° Source Four Jr. (575)	9.75	13	19.5	25.99	32.49	38.99	max spot diam
	168	94	42	24	15	10	footcandles
ETC 26° Source Four Jr. (575)	6.65	8.87	13.3	17.74	22.17	26.6	max spot diam
	410	230	102	58	37	26	footcandles
ETC 25°- 50° Source Four Jr. (575)	6.65	8.87	13.3	17.74	22.17	26.6	max spot diam
	352	198	88	50	32	22	footcandles
Strand 50° SL Coolbeam (575 GLC)	11.82	15.76	23.63	31.51	39.39	47.27	max spot diam
	227	128	57	32	20	14	footcandles
Strand 36° SL Coolbeam (575 GLC)	8.89	11.85	17.77	23.7	29.62	35.55	max spot diam
	388	218	97	54	35	24	footcandles
Strand 26° SL Coolbeam (575 GLC)	6.38	8.5	12.75	17	21.26	25.51	max spot diam
	861	484	215	121	78	54	footcandles
Strand 19° SL Coolbeam (575 GLC)	4.75	6.34	9.5	12.67	15.84	19.01	max spot diam
	1002	564	250	141	90	63	footcandles
	5'	10'	15'	20'	30'	40'	
Altman 3.5" x 6" (500W EHD)	3.44	6.89	10.33	13.77	20.66	27.55	max spot diam
	600	150	67	38	17	9	footcandles
Altman 3.5" x 8" (500W EHD)	2.49	4.99	7.48	9.97	14.96	19.95	max spot diam
	640	160	71	40	18	10	footcandles
Altman 3.5" x 10" (500W EHD)	2.03	4.07	6.1	8.14	12.21	14.28	max spot diam
	692	173	77	43	19	11	footcandles
Altman 3.5" x 12" (500W EHD)	1.58	3.17	4.75	6.34	8.97	12.67	max spot diam
	800	200	89	50	22	12	footcandles
	50'	60'	70'	80'	90'	100'	
ETC 10° Source Four (575x)	7.87	9.44	11.02	12.59	14.77	15.74	max spot diam
	221	154	113	86	68	55	footcandles
ETC 5° Source Four (575x)	5.24	6.29	7.34	8.39	9.43	10.48	max spot diam
	362	251	185	141	112	90	footcandles
Strand 10° SL Coolbeam	7.81	9.44	11.02	12.59	14.17	15.74	max spot diam
	284	197	145	111	88	71	footcandles
Strand 5° SL Coolbeam	4.37	5.24	6.11	6.99	7.86	8.73	max spot diam
	840	593	428	328	259	210	footcandles

Photometric data provided by manufacturer.

ETC PARNel

Altman 6" Fresnel

Strand 6" Fresnelite

Altman 6" Fresnel

Used in theater, television, clubs, or anywhere that soft-edged control lighting is required, Altman's 6" Fresnel is a sturdy, lightweight, all-purpose fixture. Filter frame, yoke, and a 36" 3-wire cable lead are all included. The fixture accepts 500 to 750 Watt incandescent or tungsten halogen lamps in its medium prefocus socket, and is UL listed to 750 Watts. Lamp and connector not included.

6" Fresnel	AL-65Q

6" Fresnel Accessories:

Filter Frame 7½" (included)	PRX-7CF
C-clamp	165-015
Barn Door 4-way 7½"	AL-6BD-4
Snoot 7½"	AL-6SN
Safety Cable 30" (included)	167-020

Lamps:

BTL 500W - 120V 3000˚K, 500hr	950-080
BTN 750W - 120V 3050˚K, 500 hr	960-080

Altman 8" Fresnel

A long throw Fresnel fixture, Altman's 8" Fresnel is a truly solid performer where controlled, soft-edged lighting is a must. Filter frame, yoke, and a 36" 3-wire cable lead are all included. UL listed to 1,000 Watts, this fresnel accepts tungsten halogen lamps in its mogul prefocus socket base. Lamp and connector not included.

8" Fresnel	AL-75Q

8" Fresnel Accessories:

Filter Frame 10" (included)	PRX-10CF
C-clamp	165-015
Barn Door 4-way 10"	PRX-10BDR
Snoot 10"	PRX-10TH-8
Safety Cable 30" (included)	167-020

Lamps:

BVT 1kW - 120V 3050˚K, 500hr	963-480
BVV 1kW - 120V 3200˚K, 200hr	963-500

Altman 8" Fresnel

Altman 3" Fresnel

Fixtures Fresnels

Strand 6" and 8" Fresnelites

These Fresnel fixtures from Strand are constructed of extruded aluminum, so they are very lightweight yet durable. Lens and reflector design increases output, so the Fresnelite offers a high intensity beam which easily alternates between spot and flood focus. All controls are thermally insulated, so Fresnelites remain easy to handle. Filter frame, c-clamp, yoke, and a 36" 3-wire lead are all included.

The 6" Fresnelite accepts 500 Watt to 1kW lamps into its medium prefocus socket, while the 8" Fresnelite handles 1kW to 2kW lamps in a mogul prefocus socket. Both fixtures are UL listed. Lamp and connector not included.

6" Fresnelite	ST-120-81

6" Fresnelite Accessories:

Filter Frame 7½" (included)	PRX-7CF
C-clamp (included)	165-015
Barn Door 8-way 7½"	PRX-7BD-RE
Snoot 7½"	PRX-7TH-6
Safety Cable 30"	167-020

Lamps:

BTL 500W - 120V 3000˚K, 500hr	950-080
BTN 750W - 120V 3050˚K, 500hr	960-080
BTR 1kW - 120V 3200˚K, 250hr	963-320

8" Fresnelite	ST-121-81

8" Fresnelite Accessories:

Filter Frame 10" (included)	PRX-10CF
C-clamp (included)	165-015
Barn Door 4-way 10"	AL-8BD-4
Safety Cable 30"	167-020

Lamps:

BVT 1000W - 120V 3050˚K (500hr)	963-480
BVW 2000W - 120V 3200˚K (350hr)	975-020

Altman 3" Fresnel

For very short throws of 12.5' or less, Altman's 3" Fresnel is ideal for lighting displays, show windows, or small clubs. This Fresnel is efficient and versatile yet small and compact. Circular base plate, yoke, filter frame, and a 36" 3-wire lead are included standard. The fresnel's double contact bayonet base socket accepts 100 to 150 Watt incandescent or tungsten halogen lamps. Lamp and connector not included.

3" Fresnel	AL-100

3" Fresnel Accessories:

Filter Frame 3¾" (included)	AL-100-CFB
Baby c-clamp	165-000
Barn Door 2-way	AL-100-BD
Snoot 3¾"	AL-100-SN
Safety Cable 30"	167-020

Lamps:

ESR 100W - 120V 2850˚K, 750hr	924-030
ESP 150W - 120V 2850˚K, 1000hr	930-020

ETC Source Four PARNel

This fixture combines fresnel functionality with the performance of a Source Four Par. Its wave lens design and easy focusing knob lets you quickly access a range of 25Đ to 45Đ- a smooth, soft, symmetrical field that you can spot or flood like a fresnel. Filter frame, yoke, and a 36" 3-wire cable lead are all included. Lamp and connector not included. Rated up to 750 Watts utilizing the super efficient HPL lamp.

Source Four PARNel	ETC-706-1A1-007-Ox

PARNel Accessories:

Filter Frame 7½" (included)	PRX-7CF
C-clamp	165-815
Barn Door 4-way 7½"	PRX-7BD-RE
Snoot 7½"	PRX-7TH-6
Safety Cable 30"	167-020

Lamps:

HPL 750W - 115V/X 3050˚K, 1000hr	902-517
HPL 575W - 115V/X 3050˚K, 2000hr	902-506

Fresnel Comparison Chart

Photometric data provided by manufacturer.

	10'	20'	30'	40'	50'	
Altman 3" Fresnel	4.25 61	8.5 15	12.75 7	17 4	21.26 2	max spot diam footcandles
Altman 6" Fresnel	2.81 925	5.62 231	8.43 103	11.25 58	14.5 37	max spot diam footcandles
Altman 8" Fresnel	2.1 1,700	4.2 425	6.31 189	8.41 106	10.51 68	max spot diam footcandles
Strand 6" Fresnel	1.93 1146	3.85 287	5.78 127	7.7 72	9.63 46	max spot diam footcandles
Strand 8" Fresnel	2.46 2,571	4.91 643	7.37 286	9.82 161	12.28 103	max spot diam footcandles
ETC Source Four PARNel	4.07 1,148	8.14 287	12.21 128	16.28 72	20.35 46	max spot diam footcandles

Par 20

Pin Spot

R-40 Par 38

Par 20

This attractive and lightweight compact luminaire was designed to produce narrow to wide beam spreads from up to 15' away. Utilizing the Par 16 and Par 20 family of lamps, it is ideal for lighting retail merchandise displays, artwork, or even nightclubs. UL and cUL listed for 50 Watts. Filter frame and cord set included. C-clamp not included.

Par 20	
Black Aluminum	PRX-PR20-BW
Silver Aluminum	PRX-PR20-SW

Par 20 Accessories:	
Filter Frame (included)	PRX-PR20-CF
Micro Clamp	165-080

Lamps:	
100W Par 20 NSP (E-26 base)	906-135
100W Par 20 MFL (E-26 base)	906-140
75W Par 20 NSP (E-26 base)	906-100
75W Par 20 MFL (E-26 base)	906-105
75W Par 20 WFL (E-26 base)	906-107

Pin Spots

Pin Spots have a variety of uses in entertainment lighting. These small, lightweight fixtures provide bright and focused beams of light. Often used with other effects, such as mirror balls, they are also widely used to highlight museum artwork or table centerpieces at parties. All pin spots include a par lamp, yoke, and PBG/U-Ground cable lead. The Par 46 model is UL listed.

Par 36 Pin Spot	
Black Steel	120-007

Lamp:	
30W 4515 Par 36 VNSP	904-010

Par 46 Pin Spot	
Black Aluminum	120-011

Lamp:	
30W 6.4V 4535	904-020

R-40 Par 38

Perfect for displays, small stages, and clubs, the rugged R-40 is good for mobile applications as well. Accepting 75 to 300 Watt R-40 or Par 38 lamps in its medium screw base socket, the Par 38 works well with color in throws of up to 18'. This unit comes with a filter frame, mounting yoke, and a 6' power cord. Connector and lamp not included.

Par 38 R-40	
Black Steel	AL-PAR38

Par 38 Accessories:	
Filter Frame 7½" (included)	PRX-7CF
C-clamp	165-015

Lamps:	
75W R-40 Flood	920-090
120W R-40 Flood	930-060
120W R-40 Spot	930-070
300W R-40 Flood	940-050
300W R-40 Spot	940-060
Q250 Par 38 Flood	936-110
Q250 Par 38 Spot	936-100

Par 46

Par 56

Par 64

Par 46

Par 46 is a professional looking, flexible fixture that provides good output from a small amount of power. Accepting 200 Watt narrow spot or medium flood lamps in its porcelain medium side prong socket, the Par 46 offers throws to 30', and is good for lighting shrubbery or scenery. Aluminum Par 46's come complete with PBG connector. Steel units are sold with bare 36" leads. Lamp not included.

Par 46	
Black Steel	AL-PAR46
Black Aluminum	112-400
Chrome Aluminum	112-410

Par 46 Accessories:	
Filter Frame, Black Steel 6¼" (included)	PRX-6CF
Filter Frame, Black Alum 6¼" (included)	161-555
Filter Frame, Chrome Alum 6¼" (included)	161-556
C-clamp	165-015
Safety Cable 30"	167-020

Lamps:	
200W Par 46 NSP	934-010
200W Par 46 MFL	934-020

Par 56

The mid-sized fixture of the Par family, the Par 56 can use either 300 or 500 Watt lamps, and can handle throws of up to 50'. The 56 accepts narrow spot, medium flood, or wide flood lamps, so it's flexible enough to be used in a wide variety of lighting applications, such as club settings, stages, or for decorative party lighting. Lamp and connector are not included.

Par 56	
Black Steel	AL-PAR56
Black Aluminum	111-605
Chrome Aluminum	111-505

Par 56 Accessories:	
Filter Frame, Black Steel 7½" (included)	PRX-7CF
Filter Frame, Chrome Alum 9" x 9" (included)	161-796
C-clamp	165-015
Barn Door 4-way 7½"	AL-6BD-4
Snoot 7½"	AL-6SN
Safety Cable 30"	167-020

Lamps:	
300W Par 56 NSP	940-080
300W Par 56 MFL	940-090
300W Par 56 WFL	940-100
500W Par 56 NSP	950-220
500W Par 56 MFL	950-230
500W Par 56 WFL	950-240

Par 64

Probably the most widely used fixture in the lighting industry today, the Par 64 is useful in stage lighting for color or general washes and also provides large, even coverage
lighting for film and television. UL listed for up to 1kW, the Par 64 can handle four different lamp types, from Very Narrow Spot to Wide Flood, in its porcelain mogul end prong socket. Lamp and connector are not included.

Par 64	
Black Steel	110-600
Black Aluminum	111-510
Chrome Aluminum	111-608

Par 64 Accessories:	
Filter Frame, Black Steel 10" (included)	PRX-10CF
Filter Frame, Black Alum 10" (included)	161-817
Filter Frame, Chrome Alum 10" (included)	161-816
C-clamp	165-015
Barn Door 4-way Steel 10"	PRX-10BDR
Snoot 10"	PRX-10TH-8
Safety Cable 30"	167-020

Lamps:	
1kW FFN Par 64 VNSP	963-600
1kW FFP Par 64 NSP	963-620
1kW FFR Par 64 MFL	963-640
1kW FFS Par 64 WFL	963-660

ETC Source Four Par EA

Altman Outdoor Par

ETC Source Four Par EA

One compact lamp, 5 beam spreads, higher light output, and reduced operating costs - that sums up ETC's Source Four Par. The Source Four Par uses a faceted, cast aluminum reflector with ETC's innovative Enhanced Aluminum coating to provide for maximum reflectivity and a smooth, intense lighting wash.

Changing beam angles is easy: the Source Four Par EA comes with a set of four snap-in lenses (VNSP, NSP, MFL, and WFL) which mount into a rotating ring. No more reaching into a hot can to retrieve cracked porcelain sockets, and no need to carry a large stock of expensive Par 64 lamps.

Using the narrow spot lens, at a 50' throw it produces a 16.5' diameter, 81 footcandle beam. Comes with filter frame, 36" 3-wire leads and a set of four lenses. Standard color is black, but the fixture is also available in white and custom colors. The Source Four Par is UL Listed to 750 Watts. Lamp and connector not included.

Source Four Par EA with 4 piece lens set	ETC-706-1A1-006-0X

Source Four Par Accessories:	
Filter Frame 7½" (included)	PRX-7CF
C-Clamp	165-015
Barn Door 4-way 7½"	PRX-7BD-RE
Clear Flat Lens	ETC-400-CL
Lens Set (4-piece) (included)	ETC-706-1A1-013
Safety Cable 30"	167-020

Lamps:	
HPL 375W - 115V/X 3050˚K, 2000hr	902-503
HPL 575W - 115V/X 3050˚K, 2000hr	902-506
HPL 750W - 115V/X 3050˚K,1000hr	902-517

Altman "Wet Location" Outdoor Par 64

Altman's Outdoor Par luminaire is UL listed for portable or permanent installations in wet locations for use with a Par 64 sealed beam lamp. The housing is constructed of cast aluminum for maximum durability, and the lens holder and external hardware are made of stainless steel.

The unit can be externally rotated to allow for lamp focusing, and the positive locking handles provide easy positioning of the fixture. The yoke allows for surface mounting or can be hung with an optional pipe clamp.

All removable components have gaskets to ensure a watertight seal, and all surfaces are finished with a highly durable, low gloss baked enamel paint. The wiring is comprised of 24" high-temperature leads enclosed within an overall high-temperature, waterproof and sunlight-resistant jacket connected via a gasketed liquid-tight strain relief.

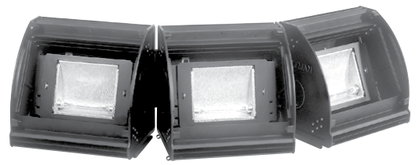
The clear borosilicate glass lens is able to withstand high temperatures and is tempered for maximum strength. Filter frame is included standard; the optional snoot/color frame holder accepts standard and dichroic color media. Standard color is gray, but the fixture is also available in custom colors. Lamp and connector not included.

"Wet Location" Outdoor Par 64	AL-OUTDOOR-PAR64

Outdoor Par 64 Accessories:	
Pipe Clamp	165-015
Safety Cable 30"	167-020

Lamps:	
FFN 1kW Par 64 VNSP -120V 3200˚K, 800hr	963-600
FFP 1kW Par 64 NSP - 120V 3200˚K, 800hr	963-620
FFR 1kW Par 64 MFL - 120V 3200˚K, 800hr	963-640
FFS 1kW Par 64 WFL - 120V 3200˚K, 800hr	963-660

Altman Sky Cyc



Altman Focusing Cyc

Altman Ground Cyc

Altman Focusing Cyc

Engineered with a number of innovative features, each cyc fixture has a highly polished and peened reflector which is adjustable for precision focusing using a heat resistant adjustment knob with indexed markings on the housing rear. A pair of rugged tool-free spring-latches on the housing allow multiple units to be locked together in a straight row, a horizontal curve, a vertical curve, or any combination of the three.

Its heat resistant non-skid feet are height adjustable, eliminating the need for floor trunnions; a wide selection of yokes and other mounting hardware is also available.
UL and cUL listed to 1.5kW. Lamp and connector not included. Filter frame and 36" wire leads included.

Focusing Cyc	
1 Circuit Focusing Cyc	AL-FC1

Focusing Cyc Accessories:	
Filter Frame (hinged)	
$11^{1/2}$" x $10^{1/4}$"	AL-FC-CF
Safety Cable 30"	167-020

Lamps:	
FCM 1kW - 120V 3200˚K	
400hr Clear	963-060
FDB 1.5kW - 120V 3200˚K	
400hr Clear	973-000

Altman Sky Cyc

Altman's Sky Cyc is used to provide an even wash of light on large cycloramas from a hanging position. This fixture allows for wide spacing, up to 12' centers. The Sky Cyc is constructed of sturdy aluminum and has two recessed single contact sockets that accommodate 1kW to 1.5kW double-ended tungsten halogen lamps.

The units come equipped with yokes or hanging irons as required, one safety screen per circuit, c-clamp, safety cable, and a 36" 3-wire lead. Lamp and connector not included.

Sky Cyc	
1 Circuit Sky Cyc	AL-SKY-CYC-01
2 Circuit Sky Cyc (vert)	AL-SKY-CYC-02V
2 Circuit Sky Cyc (horz)	AL-SKY-CYC-02H
3 Circuit Sky Cyc (horz)	AL-SKY-CYC-03
4 Circuit Sky Cyc	AL-SKY-CYC-04

Sky Cyc Accessories:	
Filter Frame (1 each circuit)	
15½" x $15^{7/8}$"	AL-SC-CF
Standard Steel Pipe Clamp for	
1 and 2 circuit units (included)	165-015
Heavy Duty Iron Pipe Clamp	
for 3 and 4 circuit units	165-025
Safety Cable 30" (included)	167-020

Lamps:	
FFT 1kW - 120V 3200˚K	
400hr Clear	963-140
FDB 1.5kW - 120 Volt 3200˚K	
400hr Clear	973-000
FGT 1.5kW - 120 Volt 3200˚K	
400hr Frost	973-010

Altman Ground Cyc

Designed to provide an even wash of light on cycloramas from a floor position, the Ground Cyc is available in one to twelve lamp configurations. Constructed of rugged steel, each compartment has two porcelain recessed single contact sockets that accommodate a 1kW lamp. The lamp compartments are spaced on 9" centers and are wired to your specification in one to twelve circuits.

Two floor trunnions, one filter frame and safety screen per fixture, and 36" 3-wire cable leads are provided for configuration requirements. Lamp and connector not included.

Ground Cyc	
1 Circuit Ground Cyc	AL-GC1
2 Circuit Ground Cyc	AL-GC2
3 Circuit Ground Cyc	AL-GC3
4 Circuit Ground Cyc	AL-GC4

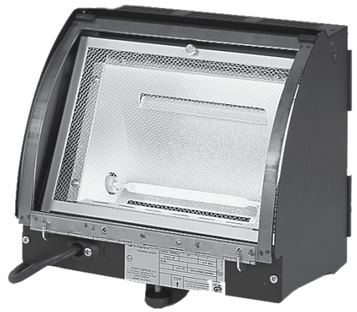
Ground Cyc Accessories:	
Filter Frame	
$8^{3/4}$" x 13" (included)	AL-GC-CF
Safety Cable 30"	167-020
Floor Trunnion (included)	AL-FT

Lamps:	
FCM 1kW - 120 Volt 3200˚K	
400hr Clear	963-060
FHM 1kW - 120 Volt 3200˚K	
400hr Frost	963-500

Strand Iris Cyc

Strand Coda

Strand Orion



Strand Iris Cyc

Efficient and economical in cyc and background lighting, the Iris Cyc comes in 1, 2, 3 or 4 light units. When placed on 8' centers, single units can illuminate a 23' high cyclorama. Made of rugged steel, they utilize a 1,500 Watt lamp in a recessed single contact base socket. Yoke, c-clamp, a filter frame for each light, and 36" 3-wire lead per circuit are all included.Lamp and connector not included.

Iris Cyc Manual Operation	
1-Lite Iris Cyc	ST-260-71
2-Lite Iris Cyc	ST-261-71
3-Lite Iris Cyc	ST-261-81
4-Lite Iris Cyc	ST-261-91
Iris Accessories:	
Filter Frame 12¼" x 16" (included)	ST-280-11
Wire Guard 12¼" x 16"	ST-280-12
C-clamp (included)	165-015
Lamp:	
FDB 1.5kW - 3200˚K Clear	973-000

Strand Coda Cyc

This lightweight fixture is used for backdrop and cyc lighting and comes in 1, 3, and 4 light configurations. For use as either a hanging or free standing floor fixture, Coda's unique reflector allows for wider spacing between units, and it an be placed as close as 3' from the area to be lit. Accepts 500 Watt lamps. Color frame, reversible yoke, and 36" 3-wire lead per circuit are all included standard on each unit. Lamp and connector not included.

Coda Cyc	
Coda 500/1	ST-141-11
Coda 500/3	ST-141-33
Coda 500/4	ST-141-41
Coda Accessories:	
Filter Frame 8½" x 9½" (included)	ST-281-23
C-Clamp	165-015
Wire Guard 8½" x 9½"	ST-280-09
Lamp:	
FDN 500W - 3200˚K Frost	950-050

Strand Orion Groundrow

For even light coverage of cycloramas in television studios, motion picture sound stages and theatrical stages, this floor-standing, high quality unit has a unique hinge arrangement for grouping in a straight or curved configuration.

Uses a 500 Watt, 750 Watt, or 1kW lamp and is supplied with black wire guard, filter frame, and 3' power cable with bare leads. Lamp and connector not included.

Orion Groundrow	
(single compartment per circuit)	ST-260-11
Orion Accessories:	
Filter Frame 9½" x 11½" (included)	161-990
Lamps:	
FDF 500W - 120 Volt 3200˚K	
400hr Clear	950-040
EJG 750W - 120 Volt 3200˚K	
400hr Clear	960-010
FCM 1kW 120 Volt 3200˚K	
400hr Clear	963-060
FHM 1kW 120 Volt 3200˚K	
400hr Frost	963-080

ELS also sells and installs curtains and track.
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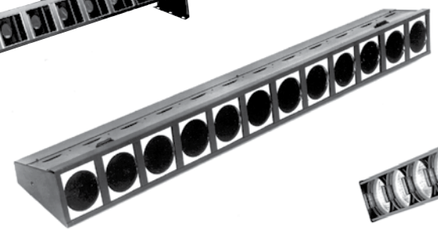
Altman MR-16 Zip Strip

Altman R-40 Borderlight



ETC MultiPAR Striplight

Altman MR-16 Zip Strip

This fixture is great when a general wash of light is needed, but the available space is small. Each compartment in Altman's Zip Strip holds two MR-16 lamps in two spring loaded lamp holders with 2-pin push-on lamp sockets.

UL listed for 20 to 75 Watts, the Zip Strip comes complete with steel trunnions for floor and side mounting or hanging arm and clamp. Lamps and connectors not included.

Zip Strip (3 circuit, 6')	AL-ZS3
Zip Strip Accessories:	
Filter Frame 4$^{3/4"}$ x 4$^{3/8"}$ (included)	AL-ZS-CF
Steel Trunnion, Pair	AL-ZS-FT
Hanging Arm and Clamp	AL-508
Lamps:	
ESX 20W MR-16 NSP 12V 2900˚K	904-250
EXT 50W MR-16 NSP 12V 3050˚K	904-290
EYC 75W MR-16 FL 12V 3050˚K	904-320

Altman R-40 Borderlight

Used for toning, fill, or cyclorama lighting when a general wash of light is needed, Altman's R-40 Borderlight provides a smooth, even field whether lighting from the ground or from above. Utilizing the R-40 series of lamps, this fixture has porcelain medium screw base sockets, each in individual compartments on 6" centers, and is UL listed for up to 300 Watts.

The Borderlight is supplied with one reversible filter frame per socket that holds glass or sheet color filters, a pair of iron swivel hangers with c-clamp or a pair of castered floor trunnions, and a 36" 3-wire lead for each circuit. Lamps and connectors not included.

R-40 Borderlight	
3 Circuit Borderlight 6'	AL-R40-6
3 Circuit Borderlight 7½'	AL-R40-75
4 Circuit Borderlight 8'	AL-R40-8
Borderlight Accessories:	
Filter Frame 5$^{3/4"}$ x 6$^{3/4"}$ (inc.)	AL-R40-COMBO
Safety Cable 30"	167-020
Hanging Arm & Clamp	AL-508
Floor Trunnion	AL-FT
Lamps:	
75W R-40 Flood 120V 2700˚K	920-090
120W R-40 Flood 120 V 2700˚K	930-150
300W R-40 Flood 120V 2700˚K	940-050

ETC MultiPAR Striplight

ETC's Source Four MultiPAR family of fixtures is a unique replacement for the standard striplight. Using the energy-efficient Source Four PAR design, the MultiPAR offers the light output of a 1000 Watt lamp using the patented HPL 575 Watt lamp. This unit is available in a number of configurations. Includes filter frame, and hanging arms or floor trunnions. 36" wire leads are included. Lamps and connectors not included.

MultiPAR with Trunnions for Floor Mounting	
MultiPAR 3	ETC-706-1A1-033
MultiPAR 4	ETC-706-1A1-043
MultiPAR 12	ETC-706-1A1-034
MultiPAR with Hanging Brackets+C-clamps	
MultiPAR 3	ETC-706-1A1-039
MultiPAR 4	ETC-706-1A1-044
MultiPAR 12	ETC-706-1A1-040
MultiPAR Accessories:	
Hanger Set	ETC-706-1A3-051
Trunnion Set	ETC-706-1A3-050
Flipper for MultiPAR 3	ETC-706-1A3-071
Flipper for MultiPAR 12	ETC-706-1A3-072
Casters for trunnions	ETC-PCI-CASTERS
Filter Frame 7½" (included)	PRX-7CF
Safety Cable	167-020
Lamps:	
HPL 575W - 115 Volt/X 3050˚K	
2000hr	902-506
HPL 750W - 115 Volt/X	
3050˚K 1000hr	902-517

Altman 10" Scoop

This lightweight and compact ellipsoidal reflector flood is useful for theater or television flood lighting where space limitations are a factor. The fixture utilizes 400 Watt lamps in its medium screw base socket, and comes with a filter frame and a 36" 3-wire cable lead. Lamp and connector are not included.

10" Scoop	AL-153

Scoop Accessories:	
Filter Frame 10½" x 10½" (included)	AL-153-CF
C-Clamp	165-015
Safety Cable 30"	167-020

Lamps:	
400W G/FL - 120V 2850˚K, 800hr	943-030
400W G/SP - 120V 2950˚K, 200hr	943-040
575 Watt HPL 115 Volt/X 3050˚K 2000 hr	902-506

Altman 14" Focusing Scoop

This Altman scoop has a rear crank handle, which allows for adjustment from spot to flood focus. The fixture can be used as a flood, cyclorama or fill light, and can accept 500 Watt to 1kW lamps in its medium prefocus socket. Comes with a 36" 3-wire cable lead and filter frame, lamp and connector are not included.

14" Focusing Scoop	AL-160

Scoop Accessories:	
Filter Frame 15¾" x 16" (included)	AL-160-CF
C-Clamp	165-015
Safety Cable 30"	167-020

Lamps:	
EGF 750W - 120V 3200˚K, 500hr Clear	960-060
EGK 1kW - 120V 3200˚K, 3000hr Frost	963-300

Altman 14" Scoop

A larger version of Altman's 10" scoop, the 14" is utilized as a flood and cyclorama light. The fixture's mogul screw base socket can utilize 300 Watt to 1kW lamps, and comes with a filter frame and a 36" 3-wire cable lead. Lamp and connector are not included.

14" Scoop	AL-154

Scoop Accessories:	
Filter Frame 15¾" x 16" (included)	AL-154-CF
C-Clamp	165-015
Safety Cable 30"	167-020

Lamps:	
500W - 120V 3050˚K, 1000hr Frost	950-210
750W - 120V 3050˚K, 1000hr Frost	960-140
1kW - 120V 3100˚K, 1000hr Frost	963-540

Altman 16" Scoop

This Altman scoop has a rear crank handle, which allows for adjustment from spot to flood focus. The fixture can be used as a flood, cyclorama or fill light, and can accept 500 Watt to 1kW lamps in its medium prefocus socket. Comes with 36" 3-wire cable lead and filter frame, lamp and connector are not included.

16" Scoop	AL-161

Scoop Accessories:	
Filter Frame 2-piece 16" diameter (included)	AL-161-CF
C-Clamp	165-015
Safety Cable 30"	167-020

Lamps:	
FDN 500W - 120V 3200˚K, 400hr Frost	950-050
EMD 750W - 120V 3200˚K, 400hr Frost	960-020
FCM 1kW - 120 Volt 3200˚K, 400hr Clear	963-060

Clay Paky Alpha Spot HPE

The Clay Paky Alpha Spot HPE is a high performance 575 watt fixture. It features CMY color mixing, a seven color wheel, a 10Đ to 40Đ zoom, electronic focusing, three gobo wheels (two rotating gobo wheels with six bi-directional, indexable, gobos, and one fixed gobo wheel with eight gobos), an animation disc that can be used alone or in combination with the gobo wheel, two bi-directional prisms, three frost filters, a 0-100% dimmer, strobe effect, a mechanical iris, and pre-set macros. In addition, this unit is 115/230V switchable, can be re-set from the control console, and is DMX-512 and Ethernet ready. The Alpha Spot HPE is one of the SV (Silent Version) projectors from Clay Paky. Lamp included, connector not included.

Alpha Spot HPE	CP-610-60
Safety Cable 30"	167-020
Pro-burger Snap Clamp	310-946
HMI 575G/S (included)	900-025

Clay Paky Alpha Spot

The Clay Paky Alpha Spot is a 575 watt moving body fixture. The unit features two color wheels, a 15Đ to 30Đ electronic linear zoom, electronic focusing, two rotating gobo wheels with six bi-directional, indexable gobos, CTO and CTB color correction, a five-sided prism, a 0-100% dimmer, mechanical iris, strobe effect, and two frost filters. The Alpha Spot uses a longlife self-charging buffer battery, allows the user to reset it from the control console, and is DMX-512 and Ethernet ready, and is 115/230V switchable. This is one of the SV (Silent Version) projectors from Clay Paky. Lamp included, connector not included.

Alpha Spot	CP-610-65
Safety Cable 30"	167-020
Pro-burger Snap Clamp	310-946
HMI 575G/S (included)	900-025

Clay Paky Alpha Wash

The Clay Paky Alpha Wash offers an amazing 4Đ to 80Đ zoom, a 575 watt lamp, full CMY color mixing and a color wheel (with Congo Blue and Saturated Red pre-loaded), linear CTO, a light frost and heavy frost, a 0-100% dimmer, and strobe effects. When dimmed to 100% the unit automatically goes into Energy Saving mode and reduces consumption by 50%. The unit is 115/230V switchable, can be re-set from the control console, and is DMX-512 and Ethernet ready. The Alpha Wash is one of the SV (Silent Version) projectors from Clay Paky. Lamp included, connector not included.

Alpha Wash	CP-610-70
Safety Cable 30"	167-020
Pro-burger Snap Clamp	310-946
HMI 575SE (included)	900-030

Clay Paky Alpha Wash HALO

The Clay Paky Alpha Wash Halo is an incandescent wash light with a 1,000 watt (3200K) halogen lamp, designed specifically for use in television and theater, but with uses in architectural and other applications where the warmer temperature of the halogen lamp is desired. This fixture features a 14Đ to 64Đ electronic linear zoom, a top hat, CMY full color mixing, frost with linear variation, an indexable ovalizer, a 0-100% dimmer, and strobe effects. The Alpha Wash Halo features a long-life self-charging buffer battery, can be re-set from the control console, and is DMX-512 and Ethernet ready, and is 115/230V switchable. This is one of the SV (Silent Version) projectors from Clay Paky. Lamp included, connector not included.

Alpha Wash HALO	CP-610-75
Safety Cable 30"	167-020
Pro-burger Snap Clamp	310-946
Philips Lamp 7002Y (included)	963-321

Martin MiniMac Automated Profile Spotlight

Martin Professional's MiniMac Profile is an automated, single-armed, moving-head, profile spotlight. Its compact, stylish appearance makes it ideal for many applications from clubs, to restaurants, to retail displays. The seven easy-to-change patterns combined with the twelve colors gives endless possibilities for decoration and ambient settings. Up to seven presets can be programmed in the on-board memory for full stand-alone operation. 150 Watt discharge lamp and PBG connector included; switch selectable power supply: 100/120/210/230/250V.

MiniMac Profile	MP-902-300
Pro-burger Snap Clamp	310-946
Safety Cable 30"	167-020
HTI 150W - 90V 5000°K, 250hr	902-605

Martin MAC 250 Krypton

The new MAC 250 Krypton features a number of significant changes that make this moving head suited to an even wider variety of markets - retail and leisure applications, special events and more. A new and improved glass reflector produces extremely high light output. The high precision achromatic lens system maximizes optical efficiency of the included Philips MSD 250/2 lamp for superb picture quality. The multi-layer dichroic reflector minimizes thermal stress and delivers a beautifully even beam. The 16-bit precision gobo wheel houses 7 slots plus open, and the new design makes gobo changes fast and easy. A bi-directional, 3-facet prism is smooth and rotates at variable speeds, adding unique effects to gobo projection. The prism can also be replaced giving lighting professionals an added customizable feature. The Krypton also includes a new light sensitive yellow display, as well as 3 and 5 pin XLR connectors for data, and an AC operating range from 100-250V. 250 Watt MSD lamp included, connector not included.

MAC 250 Krypton	MP-902-256
Pro-burger Snap Clamp	310-946
Safety Cable 30"	167-020
MSD 250/2 - 90V 5600°K, 2000hr	902-435

Martin MiniMac Automated Wash Luminaire

The MiniMac Wash is an automated single-armed moving-head fresnel washlight. Its compact and stylish appearance makes it attractive for many applications like restaurants, discotheques, or retail environments. The two spread angle options of 23Ð and 40Ð provide the possibility for a very even color wash on short throw distances, and up to seven presets can be programmed into the on-board memory for full stand-alone operation. 150 Watt discharge lamp and PBG connector included; switch selectable power supply: 100/120/210 /230/250V.

MiniMac Wash	MP-902-304
Pro-burger Snap Clamp	310-946
Safety Cable 30"	167-020
HTI 150W - 90V 5000°K, 250hr	902-605

Martin MAC 250 Wash

The new MAC 250 Wash is equipped with remarkably efficient reflector technology for greater output, extraordinarily fast and quiet movement, a variable frost filter for zoom effect and a CMY color mixing system with a complimenting color wheel. The 250 Wash features user friendly modularity and the sleek exterior design of the new 250 range. 250 Watt MSD lamp included, connector not included. Operating Range: 100 - 250V, 50/60 HZ.

MAC 250 Wash	MP-902-xxx
Pro-burger Snap Clamp	310-946
Safety Cable 30"	167-020
MSD 250/2 - 90V 5600°K, 2000hr	902-435

Martin MAC 550

The MAC 550 features unprecedented illumination for a 400W fixture, astounding graphics and animation, all wrapped within the award winning design of the MAC 2000. Combined with its 14˚ to 30 ˚ motorized zoom and new color and gobo motors and unique gobo animation system, it is a revolution in the world of quiet, mid-sized fixtures. AC Operating ranges: 90-130V or 200-260V. 400 Watt HTI lamp included, connector not included.

MAC 550	MP-902-170
Pro-burger Snap Clamp	310-946
Safety Cable 30"	167-020
HTI 400/DS, 800 hours	902-606

Martin MAC 500

Lighting design has no limits with the MAC 500, a highly reliable award-winning profile spot luminaire which projects a bright beam with a razor-sharp hard-edge. The MAC 500 is designed to use a 575 Watt MSR discharge source. It provides 18 combinable dichroic color filters, nine static and five indexed rotation gobos, variable iris and focus, rotating 3-facet prism, full-range dimming, strobe effects up to 23Hz, and 16-bit resolution movement. MAC 500 E is an electronic ballast version of the MAC 500, providing flicker-free operation, an economic power-saving mode, compatibility with 100 and 200 Volt AC supplies, and considerably lighter weight. 575 MSR Lamp included, connector not included.

MAC 500	
MAC 500 Standard Model with Magnetic Ballast	MP-902-150
MAC 500 E with Electronic Ballast	MP-902-152
Pro-burger Snap Clamp	310-946
Safety Cable 30"	167-020
MSR 575/2 - 95V 5600°K, 750hr (included)	902-420
MSD 575W - 95V 5900°K, 2000hr	902-447

Martin MAC 600

An industry standard, MAC 600 is a precision driven, yoke-mounted fresnel washlight designed for use with a 575 Watt lamp source. With 440Ð of tilt for fast, smooth movement, it features a three-wheel CMY (cyan, magenta, yellow) color mixing system, a four-position color wheel with red, green, blue and color correction filters, plus full-range continuous dimming, a separate shutter, frost and fully combinable beam-shaping filters. Martin's MAC 600 E provides an electronic ballast with flicker-free operation as well as an economic power-saving mode, and compatibility with 100 and 200 Volt AC supplies. 575 Watt MSR lamp included, connector not included.

MAC 600	
MAC 600 Standard Model with Magnetic Ballast	MP-902-100
MAC 600 E with Electronic Ballast	MP-902-103-04
Pro-burger Snap Clamp	310-946
Safety Cable 30"	167-020
MSR 575/2 - 95V 5600°K, 750hr (included)	902-420

Martin MAC 2000 Series

The MAC 2000 Profile II from Martin Professional is a 1.2kW moving head spotlight with CMY (cyan, magenta, yellow) color mixing technology.

The MAC 2000's color/gobo wheel provides seven slots with four dichroic color filters and three static steel gobos. Two overlapping gobo wheels provide room for ten glass gobos. The effects wheel provides a variable frost filter and two rotating slots that house a beam shaper and a rotating 3-facet prism, combined dimmer/shutter, a remote iris, focus, zoom, 540Ð of pan, and 267Ð of tilt. All MAC 2000's are switchable between 100-130V and 200-250V. 1.2kW HMI lamp included, connector not included.

Building on the solid success of the MAC 2000 Profile, the MAC 2000 Performance has been specially engineered for use in theater and television. It incorporates an array of advanced features including a mechanized framing system and gobo animation module. The MAC 2000 Performance features a fully automated, micro-adjusting shutter blade system that enables the Performance to project angled shapes with hard and sharp edges. For full flexibility, each blade swivels 60 degrees, and the entire module rotates 90 degrees. Central to the MAC 2000 Performance is its unique gobo animation system, especially engineered to create animated effects such as rising flames, windswept clouds or driving rain. The entire animation wheel pivots, which frees designers to create complex animations that move in any direction.

The MAC 2000 Wash features full CMY color mixing along with variable color temperature correction filters. All of these variable filters work under the same principle as the previous MAC 2000 products, but they do feature a new etching design to ensure smooth and even color mixing across the entire beam. 1200W HMI lamp include, connector not included.

MAC 2000	
MAC 2000E Profile II	MP-902-058-15
MAC 2000 Performance	MP-902-054-65
MAC 2000 Wash	MP-902-030-15
Pro-burger Snap Clamp	310-946
Safety Cable 30"	167-020
HMI 1.2kW W/S - 100V 6000°K, 750hr (included)	900-141

VARI*LITE VL1000

The VARI*LITE VL1000 ERS luminaire combines the functionality of one of the most popular conventional lighting tools - the ellipsoidal reflector spotlight - with the versatility of an automated luminaire. Automated functions include CYM color mixing, rotating gobos, variable diffusion, and a zoom lens that ranges from 19Đ to 36Đ for normal imaging and a super zoom function that ranges to 70Đ. Alternate version with iris available. Lamp included. Gobos and connector sold separately.

VL1000	
VARI*LITE VL1000AS (90-270V, MSR Source)	VL-966-312
VARI*LITE VL1000TS (110V, Tungsten Source)	VL-966-302
Pro-burger Snap Clamp	310-946
Safety Cable 30"	167-020
VLIK Ushio 1000W - 115V 3200°K, 300hr (included)	902-461
MSR 575HR - 95V 6000°K , 750hr (included)	902-410

VARI*LITE VL2000 Wash

The VARI*LITE VL2000 Wash luminaire sets a new standard for the combination of brightness, beam control and physical size for wash luminaires. The VL2000 Wash luminaire features an upper enclosure that houses the control electronics as well as a power factor corrected arc power supply for a 700 watt short arc lamp. The VL2000 Wash luminaire also features zoomable beam spreader optics, CYM color mixing, a separate fixed color wheel and a high performance dimmer/strobe mechanism. The luminaire is the same size and weight as the VL2000 Spot luminaire providing a consistent hang configuration and "look" no matter which luminaire type is required. 700 Watt MSR lamp included, connector not included. AC operating range from 90-264V.

VL2000 Wash	VL-967-101
Pro-burger Snap Clamp	310-946
Safety Cable 30"	167-020
MSR 700/SA - 72V 5600°K, 500hr (included)	902-427

VARI*LITE VL2000 Spot

The VARI*LITE VL2000 Spot luminaire is based on the groundbreaking technology used in some of the most popular and innovative spotlights in the history of automated lighting. The VL2000 Spot luminaire features an upper enclosure that houses the control electronics as well as a power factor corrected arc power supply for the 700 Watt short arc lamp. The VL2000 Spot luminaire also features a zoom lens system and rotating gobos. The VL2000 Spot luminaire accepts a wide variety of colors and gobos. Two fixed wheels are included, one factory configured for gobos and the second for color filters. A standard palette of gobos and colors is provided with the unit. 700 Watt MSR lamp included, connector not included. AC operating range from 90-264V.

VL2000 Spot	VL-967-301
Pro-burger Snap Clamp	310-946
Safety Cable 30"	167-020
MSR 700/SA - 72V 5600°K, 500hr (included)	902-427

VARI*LITE VL2500 Spot Luminaire

The VL2500 Spot luminaire comes complete with all of the qualities and options designers love from the original Series 2000 fixtures. It is still small, lightweight, and fast with a 700-watt shortarc lamp, impressive lumen output, and a zoom range from 18.5Đ to 42Đ. To add to these features, this luminaire provides three-wheel CYM color mixing. When combined with 11 standard colors on a fixed wheel, the color options are practically limitless. Additionally, a coated glass dimmer wheel provides smooth fades, and a separate dual blade strobe system offers quiet and reliable strobe effects. The VL2500 Spot luminaire's pan and tilt motors are now more powerful and provide more torque. For image projection, the fixture has one gobo wheel with five rotatable and indexable positions and a second gobo wheel with 11 fixed positions. The VL2500 Spot luminaire contains everything that really matters to designers - limitless color options, clarity of optics, exceptional zoom range, fast, smooth movement and powerful output. 700 Watt MSR lamp included, connector not included. AC operating range from 90-264V.

VL2500	VL-967-601
Pro-burger Snap Clamp	310-946
Safety Cable 30"	167-020
MSR 700/SA - 72V 5600°K, 500hr (included)	902-427

VARI*LITE VL2500 Wash Luminaire

The VL2500 is equipped with the same features and characteristics that make the original Series 2000 fixtures so useful. It is still small, lightweight, and fast with a 700-watt short-arc lamp, impressive lumen output, and a zoom range from 14˚ to 55˚. Of course, it still provides three-wheel CYM color mixing. When combined with 11 standard colors on a fixed wheel, the color options are practically limitless. The new features in this luminaire are the coated glass dimmer wheel which provides smooth fades, and a separate dual-blade strobe system that offers quiet and reliable strobe effects. In addition, the luminaire's pan and tilt motors are now more powerful and provide more torque. The fixture is the same size at the VL2500 Spot luminaire, and it has the same profile, providing a consistent hang configuration and appearance no matter which luminaire type is required. 700 Watt MSR lamp included, connector not included. AC operating range from 90-264V.

VL2500 Wash	VL-967-602
Pro-burger Snap Clamp	310-946
Safety Cable 30"	167-020
MSR 700/SA - 72V 5600°K, 500hr (included)	902-427

VARI*LITE VL3000 Spot

This luminaire features a 6:1 zoom optics, CYM color mixing, variable CTO color temperature correction, a six-position color wheel, three gobo/effects wheels, a beam size iris and separate dimmer and ultra-fast strobe mechanisms. A standard palette of gobos, effects and colors is provided with the unit. Custom gobos, effects and color are available. An upper enclosure houses the control electronics as well as the arc power supply for the 1200 Watt short arc lamp. The arc power supply is power factor corrected for efficient power distribution. The luminaire is the same size as the VL3000 Wash luminaire, providing a consistent hang configuration and appearance no matter which luminaire type is required. 1200W HMI lamp included, connector not included. AC operating range from 180-264V.

VL3000 Spot	VL-967-801
Pro-burger Snap Clamp	310-946
Safety Cable 30"	167-020
HMI 1200W/S - 100V 6000°K, 750hr (included)	900-141

VARI*LITE VL3000 Wash

The VL3000 Wash luminaire features 6:1 zoomable beam spreader optics, CYM color mixing, variable CTO color temperature correction, a six-position color wheel and separate dimmer and ultra-fast strobe mechanisms. A standard palette of colors is provided with the unit. Custom colors are available. An upper enclosure houses the control electronics as well as the arc power supply for the 1200 watt short arc lamp. The arc power supply is power factor corrected for efficient power distribution. 1200W HMI lamp included, connector not included. AC operating range from 180-264V.

VL3000 Wash	VL-967-802
Pro-burger Snap Clamp	310-946
Safety Cable 30"	167-020
HMI 1200W/S - 100V 6000°K, 750hr (included)	900-141

VARI*LITE VL3500 Spot Luminaire

The VARI*LITE VL3500 Spot luminaire maintains the same high standards for imagery, beam control, color and brightness set by the original VARI*LITE Series 3000™ Spot luminaires, but with the added feature of a four-blade shutter mechanism that allows the blades to be operated independently or in unison on two planes for a clear and crisp image. The VARI*LITE VL3500 Spot luminaire features a 6:1 zoom optics, CYM color mixing, variable CTO color temperature correction, a six-position color wheel, two gobo/effects wheels, a shutter and separate dimmer and ultra-fast strobe mechanisms. A standard palette of gobos, effects and colors is provided with the unit. Custom gobos, effects and color are available. The luminaire is the same size as all other VARI*LITE Series 3000 luminaires, providing a consistent hang configuration and appearance no matter which luminaire type is required. 1200W HMI lamp included, connector not included. AC operating range from 200-264V.

VL3500 Spot	VL-967-819
Pro-burger Snap Clamp	310-946
Safety Cable 30"	167-020
HMI 1200W/S - 100V 6000°K, 750hr (included)	900-141

High End Systems Studio Color 250

Unique in its lightweight but durable construction, the Studio Color 250 has three-wheel CYM color mixing and six fixed colors including CTO and a true UV filter as standard. Offers fully rotatable beam shaping, remote controllable motorized zoom, and smooth dimming with separate shutters for rapid strobing. AC operating range from 100-240V. Comes with lamp, connector not included.

Studio Color 250	HE-420-103
Safety Cable 30"	167-020
Pro-burger Snap Clamp	310-946
MSD 250/2 - 90V 5600°K, 2000hr (included)	902-435

High End Systems Studio Spot 575

The Studio Spot 575 does not use fans, which guards the optics against excess fog, smoke and dust particles. Each gobo wheel has one open position plus five dichroic filters. Other features include a variable frost mechanism, remote focus, instant blackout shutter, iris, strobe, and random strobe effects. CYM version also available. AC operating range from 100-240V. Comes with lamp, connector not included.

Studio Spot 575	HE-390-102
Studio Spot CYM version	HE-390-103
Pro-burger Snap Clamp	310-946
Safety Cable 30"	167-020
MSR 575/2 - 95V 5600°K, 750hr (included)	902-420

High End Systems Studio Beam

The Studio Beam adds a third type of automated light to Designers' tool kits: the pebble-convex fixture. Extremely high output color mixing coupled with a large zoom range and intense beam shaping give Studio Beam a unique lighting design niche. The Studio Beam is no larger than a 250 Watt unit but has the output of a 1.2kW fixture. Its three carefully graduated, gaussian distribution pattern color wheels were designed into the fixture to facilitate millions of programmable colors and shades (CYM). Plus, three discrete dichroics offer seamless color change with true UV Blacklight. With intense rotatable beam shaping for soft edge shuttering and stunning aerial effects. Its 115mm pebble convex lens delivers a soft edge output with a special blending curve, giving the designer the ability to throw long distances or easily fill cyclorama-wide washes. Comes with lamp, connector not included. AC operating range from 100-240V.

Studio Beam	HE-500-101
Safety Cable 30"	167-020
Pro-burger Snap Clamp	310-946
MSR 700SA - 72V 5600°K, 1000hr (included)	902-427

High End System Studio Spot 250

The Studio Spot 250 includes a 12 (plus white) position color wheel with easily changeable dichroic filters and seven individually replaceable high resolution Lithopatterns. The four position interchangeable effects wheel has four selections (frost, 3-way prism, infinity prism and distortion art glass). AC operating range from 100-240V. Comes with lamp, connector not included.

Studio Spot 250	HE-400-101
Safety Cable 30"	167-020
Pro-burger Snap Clamp	310-946
MSD 250/2 - 90V 5600°K, 2000hr (included)	902-435

High End Systems Studio Color 575

Color mixing is achieved via three graduated dichroic color wheels with CYM technology, plus a six-position color wheel with one open position and five dichroic filters. The convection cooled Studio Color does not use fans, guarding the optical system against excess fog, smoke and dust particles. Comes with lamp, connector not included. AC operating range from 100-240V.

Studio Color 575	HE-260-111
Safety Cable 30"	167-020
Pro-burger Snap Clamp	310-946
MSR 575/2 - 95V 5600°K, 750hr (included)	902-420

High End Systems DL.1

Unite the worlds of automated lighting and video projection with the industry's most advanced moving light fixture to date. Now you can incorporate virtually unlimited media content into one fixture. In conjunction with Catalyst Software, the DL.1 gives you complete and real-time control over the world you're creating. Pull images from DVDs, videos, graphic libraries and other types of media and project them onto a stage, wall, prop, screen or a set. Project digital aerials - laser-like aerial effects. Using the motion control feature, project your imagery anywhere in a 3-D space. Maintain complete control over image size and focus. Digital projection offers a flat, even field with a high contrast ratio of 1100:1 without the peaks and valleys of conventional lights
Rigs fast and looks great. Optional Digital Eye Technology allows DL.1 to be operated as a camera lens to capture instant visuals. AC operating range from 100-120V and 200-240V.

DL.1	HE-600-101
DL.1 with Digital Eye	HE-600-102
Truss Mount Assembly	HE-804-603

High End Systems DL.2

DL.2 unites the worlds of automated lighting and digital video to create "virtual scenery" but with additional advanced features. DL.2 is a "smart" automated lighting system featuring an integrated digital media server. In one single package is housed a light engine, media server and content – and it hangs and acts like an automated light. Pull images from DVDs, videos, graphic libraries and other types of media and project them onto a stage, wall, prop, screen or a set.

DL.2 also reduces space and installation time. There's no need for RGB cabling, and servers are no longer necessary at the front-of-house position. DL.2 resembles an intelligent moving luminaire and controls just as easily – it's a plug-and-play operation using standard DMX cabling and protocols. AC operating range from 100-120V and 200-240V.

DL.2	HE-670-101

High End Systems Catalyst Pro Media Server and Software

Join the digital lighting revolution and leave behind the conventional props and fixed image patterns. The journey starts with the Catalyst Pro v3.3 Media Server, featuring the world's fastest PC processing capabilities, and Catalyst Pro v3.3 software. Let your imagination lead you -- create new worlds of virtual scenery with up to eight layers of digital media and enjoy the flexibility of real-time rendered visual effects. Get twice the impact with two independent signals to two outputs. It's like having two media servers in one.

Features

- Road-cased unit containing Apple® Power Mac G5, a 15" LCD monitor and DV1 dual video distribution amplifier, and Catalyst Interface Box
- Preloaded Catalyst Pro v3.3 software
- Multiple media libraries
- Two independent video signals that can be configured as one output with preview or two outputs to separate devices
- Eight layers of digital media with full effects capabilities on each layer
- Cross-fading between all eight layers
- Real-time effects rendering
- Rotation of images on x, y, and z axes
- Ability to overlay still images or movies on geometric shapes
- Over 50 real-time color effects
- Over 30 real-time geometric effects
- Ability to import 3-D images
- Keystone correction on vertical and horizontal planes
- Serial control of playback devices and video switchers
- Aspect ratio adjustments
- Color mixing
- Frame-accurate playback between multiple media servers
- Audio trigger for Spectrograph (wave form generator)
- 100v - 240v 50/60hz
- DMX, Serial and Midi input (optional equipment required)
- RS422 (Sony 9 pin protocol) and RS422 serial control capabilities
- Graphical user interface

For more information, or to order the High End Systems Catalyst, please call your ELS Sales Representative.

Color Kinetics iColor Cove MX Powercore

Color® Cove MX Powercore is the highest-intensity member of the iColor family of intelligent cove lights. The high-performance 12" (30.5 cm) unit features patent-pending Powercore™ technology for greater operational efficiency and simplified installation. It boasts more than double the intensity of iColor Cove, and provides uniform color mixing with maximized output to vibrantly fill alcoves and accent spaces without the constraints or complexities of conventional light sources. The compact unit has a 100-degree beam angle, and its integral mounting bracket allows for simple 180-degree rotation in 10-degree increments. It receives line voltage and data from Data Enabler.

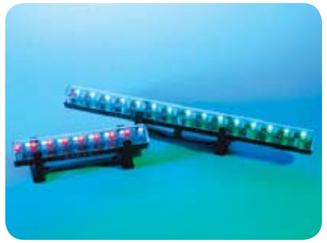
iColor Cove MX Powercore	CK-123-000-004-00
4' Mounting Track	CK-123-000-006-00
Data Enabler	CK-106-000-003-00
40' Leader Cable	CK-108-000-021-00
1' Jumper Cable	CK-108-000-022-00

Color Kinetics ColorBurst 4+6

ColorBurst® presents the classical look of a round spotlight fixture with the contemporary benefits of LED technology. Thin and low-profile, it is rated for indoor and outdoor use. ColorBurst comes with either a soft-tempered lens for a soft-edge beam of light or a clear lens for extended light projection. A 350Ð locking base swivel and unique mounting arm allows for optimum positioning that may be locked into place. It is available in a black, white or aluminum powder coat finish.

ColorBurst 4+6	
ColorBurst 4 (White)	CK-116-000-003-00
ColorBurst 4 (Black)	CK-116-000-003-01
ColorBurst 6 (White)	CK-116-000-004-00
ColorBurst 6 (Black)	CK-116-000-004-01
PDS150E Power Supply	CK-109-000-008-01

Color Kinetics iColor Cove NXT



iColor Cove® NXT brings intelligent LED color and color changing lighting effects to alcoves, accent areas, and other tight spaces extending the range of applications made possible by the iColor Cove family. iColor Cove NXT casts a wide beam angle of 120Ð for a seamless distribution of rich, uniform color. It is designed for projects that require wider beam distribution, exhibit a need to set the light fixture in a set, non-aimed position, and have the need for uniform color mixing at a closer range, such as many backlighting applications. Available in 6- and 12-inch lengths, iColor Cove NXT is highly versatile, and may be mounted end-to-end for continuous streams of color or positioned around curves or complicated geometries. Each iColor Cove NXT length may be individually controlled via DMX512.

iColor Cove NXT	
iColor Cove NXT 6"	CK-101-000-015-01
iColor Cove NXT 12"	CK-101-000-015-00
PDS150E Power Supply	CK-109-000-008-01
Wiring Harness	CK-108-000-013-00

Color Kinetics iColor Flex

iColor® Flex is a versatile, modular, and multi-purpose intelligent LED "string light". Each strand of iColor Flex is comprised of 50 individually addressable, tri-color nodes (150 LEDs total), powered by Chromasic™, and spaced in 4", 12", or custom-sized increments up to 12" on center. iColor Flex breaks spatial boundaries for completely new applications, from the lighting of three-dimensional shapes, logos and images, to signage, landscape, alcove and aisle lighting.

iColor Flex	
iColor Flex (4" Spacing, Black)	CK-101-000-021-00
iColor Flex (12" Spacing, Black)	CK-101-000-027-00
Mounting Track (4' Black)	CK-101-000-024-01
PDS60CA 7.5W Power Supply	CK-109-000-016-01

Color Kinetics iColor MR g2

iColor® MR g2 is an intelligent, color-changing lamp that generates saturated bursts of color from most standard MR16 fixtures and sockets. A higher intensity evolution of Color Kinetics' popular iColor MR, it facilitates both new and retrofit installations – bringing the aesthetic and practical benefits of solid-state light sources to existing installations and lighting environments. With its higher output and wider beam distribution, iColor MR g2 extends the design possibilities of its predecessor – from direct-view points of light to special accents for custom-designed MR16 fixtures. It features standard MR16 bi-pin connectors and a sleek housing with matte chrome finish.

iColor MR g2 (narrow)	CK-101-000-049-06
PDS70MR Power Supply	CK-109-000-018-01

Color Kinetics iColor Fresco

iColor® Fresco brings intelligent LED colored highlights and lighting effects to architectural, commercial, retail, and residential applications. Available in 4', 2', and 1' lengths, iColor Fresco is designed for wet and damp locations, equipped with a protective housing of rugged, extruded anodized aluminum and a UV resistant clear lens. iColor Fresco projects a soft-edge beam of light at a 100Ð beam angle. Each length may be adjusted through 180Ð of angular rotation and locked into place for accurate positioning.

iColor Fresco	
iColor Fresco 4'	CK-101-000-003-00
PDS150E Power Supply	CK-109-000-008-01

Color Kinetics ColorBlast 6+12

ColorBlast 12 is a stylish, compact wall-washing light that generates rich, uniform colors and color changing effects. ColorBlast 12 fixtures are rated for indoor and outdoor use and are available in white, black or natural aluminum powder coat finish. A versatile base can be mounted to a junction box on a wall or ceiling or the optional canopy provides a finished look as a stand on a floor. A swivel bracket allows for flexible fixture positioning, that may be locked into place.

ColorBlast 6+12	
ColorBlast 6 (Black)	CK-116-000-001-01
ColorBlast 6 (White)	CK-116-000-001-00
ColorBlast 12 (Black)	CK-116-000-002-01
ColorBlast 12 (White)	CK-116-000-002-00
PDS150E Power Supply	CK-109-000-008-01

Color Kinetics ColorDial

ColorDial is an architecturally-styled controller for Color Kinetics intelligent LED illumination products. With the appearance of a common residential dimmer switch, ColorDial provides beautiful colored light and dynamic light effects at the push and turn of a knob. ColorDial includes eight lighting effects and comes ready to mount into a standard U.S. single or multi gang wall box using a standard face plate.

ColorDial	CK-103-000-014-00

Color Kinetics iW Blast 12

IntelliWhite™ iW Blast 12 is a stylish high-performance unit for wall washing and studio applications. A versatile base can be mounted to a junction box on a wall or ceiling, or the canopy provides a finished look as a floor stand. iW Blast 12 projects a narrow beam angle and is available in a black or white die cast aluminum housing. Rated for use in dry, damp, and wet environments.

iW Blast 12 (Black)	CK-501-000-004-01
iW PDS150 Power Supply	CK-509-000-001-00

Color Kinetics iW Cast 14

IntelliWhite™ iW Cast 14 PowercoreTM is a high-performance union of linear fixture design with maximized light intensity for wall washing and large alcove applications. It accepts a universal power input range from 100 to 240VAC, 50/60 Hz, which facilitates the installation of many units in a continuous run. iW Cast 14 is available with end-to-end locking connectors or a conduit-ready version, and in either a black or white die cast aluminum housing. Rated for use in dry, damp, and wet environments.. It receives line voltage and data from Data Enabler.

iW Cast 14	CK-501-000-002-00
iW Data Enabler	CK-506-000-001-00

Color Kinetics iW MR

IntelliWhite™ iW MR is a compact lamp designed to retrofit into standard MR16 fixtures and sockets. The lamp features standard MR16 bi-pin connectors. iW MR is compatible with most dimmers and transformers designed for use with incandescent 12 volt lighting systems, when used in accordance with specifications. iW MR is available in three distinct kelvin temperatures: 3000K, 3500K, and 6500K. Rated for use in dry environments.

iW MR	
iW MR 3500°K	CK-500-000-001-01
iW MR 6500°K	CK-500-000-001-02

Color Kinetics iW Profile

IntelliWhite™ iW Profile is a sleek, low-profile linear unit designed for task and under-cabinet lighting, or is easily concealed to enhance displays or reveal details in merchandise, art, exhibits, and architectural elements. It is available in 20Ð x 120Ð and 60Ð x 120Ð beam angles. Rated for use in dry and damp environments.

iW Profile (20Ð x 120Ð)	CK-501-000-05-01
iW PDS150 Power Supply	CK-509-000-001-00

Color Kinetics ColorPlay

ColorPlay® is a user-friendly lighting show authoring software for Color Kinetics LED illumination products. All tasks, from mapping lights to creating shows to previewing and downloading to iPlayer® 2, can be completed in ColorPlay, incorporating up to 170 light addresses.

ColorPlay	CK-103-000-004-02

Color Kinetics iPlayer 2

iPlayer® 2 is a compact multiple show storage and playback system for Color Kinetics digital lighting products. With 16MB of on-board memory, iPlayer 2 accommodates a full DMX universe of 170 individual light addresses. One long show or multiple shorter shows may be created on Color Kinetics® ColorPlay® software and downloaded to iPlayer 2 for convenient, compact playback. It supports connections via serial and dry contact closure input. The optional Controller Keypad provides quick and immediate triggering of show selections.

iPlayer 2	CK-103-000-007-00

ColorPlay+iPlayer 2 may be purchased together using Part # CK-103-000-007-01

Pixelrange Pixelpar 87 RGB Insert

The Pixelpar 87 is a par 36 sized combined internal/ external producing a symmetrical 20 degree beam angle. The unit uses 87 high brightness, highest quality primary, red green and blue leds. Six par 36 fixtures are connected to a remote six fixture control unit, providing extra low voltage (24 volt) control of each head. On full intensity each fitting consumes a maximum of 8 watts. Optional holographic beam shaping diffusers slot into the front of the unit for wider beam angles.

Pixelpar 87 RGB	JTE-SS-007

Pixelrange Pixelpar 90L

The Pixelpar 90 is a high output solid state lighting projector designed to deliver a symmetrical beam angle. The Pixelpar 90 contains 30, red, green and blue 1 watt luxeon emitters, configured into a hexagonal array. Designed to run as a silent, convection cooled unit, the fixture is also fully self contained. The pixelpar 90 has a maximum power consumption of only 95 watts on full intensity and 3 watts on blackout/ standby. A substantial heatsink provides suitable cooling of the leds core temperature, the Luxeon emitters deliver a precise color wavelength, which when varied, produces a potential of millions of color permutations including white light.

This high output projector is capable of producing white light, subtle hues and even the most saturate of primary/ secondary colours, instantaneous control is possible, free from mechanical colour constraints. The colours are vibrant; by using the highest quality led binning, ensuring uniformity from one fixture to the next.

The pixelpar 90 is a fully self contained device capable of running up to 600+ internal colour sequences, with two groups of 24 internal chases. Various attributes can be controlled from the on board user interface, located at the back of the unit.

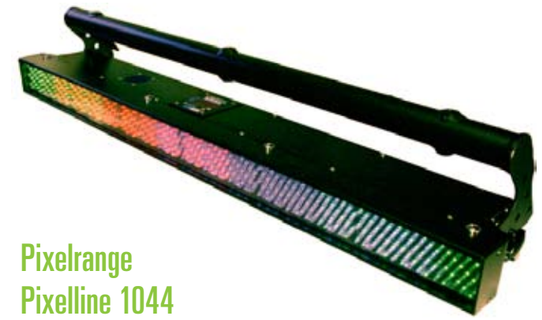
Pixelpar 90L	JTE-SS-009-0L

Pixelrange Pixelline 110ec

Designed for high output wash illumination, using five cells of RGB and amber 1-3W Luxeon emitter The Pixelline 110ec is double the output of the Pixel90(A) in a linear package, complete with forced air-cooling, from the patent pending heat management system. Five cell resolution using RGB and Amber LEDs offers full spectrum reproduction. The Pixelline 110ec is 1179mm long, consumes 360 watts on full intensity, with power draw proportionate to the output, drawing 7 watts at blackout. The standard beam angle is 4 degrees, and holographic films offer 6 options of expanding beyond this, which is also now available as an accessory for the Pixelline 1044.

Pixelline 110ec	JTE-SS-110-EC

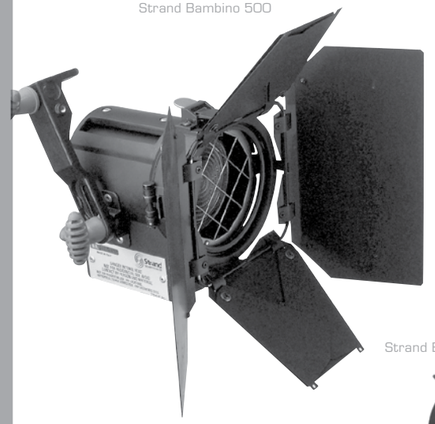
Pixelrange Pixelline 1044



Pixelline is an 18 cell linear batten 1.2 meters/ 4 foot long, designed to produce a 20 degree seamless wash of light with no 'hotspots' when rigged end to end. The unit harnesses 1044 leds mapped into 18 pixel 'cells'. Coverage up to 6.5metres/ 20 feet from the unit is possible. 'Close Quarter' illumination of delicate set pieces is possible, without fire risk. The unit comes equipped with a combined, floor, wall or flown combination yoke as standard.

Pixelline 1044	JTE-SS-1044

Strand Bambino 500



Strand Bambino 650

Strand Bambino 2kW

Strand Quartzcolor Bambino+Studio Fresnels

Strand Quartzcolor's Bambino and Studio lines have been developed specifically for broadcast, TV studios and location lighting requirements. The unique features of the range are designed to meet the demanding criteria of cinematographers, gaffers, directors of photography, lighting directors and rental houses. With versatility, superior optics, excellent performance, ease of use and maintenance, these two families are the natural choice of professionals.

Bambinos are supplied with yoke, filter frame, 8-leaf barn door, switch and cable; lamp not included. Studio fresnels include Manual or Pole operated yokes, filter frame, 8-leaf barn door, switch and cable; lamp not included.

Bambino 500 Fresnel	ST-276-26

Bambino 500 Accessories:	
Filter Frame $5^{1/8}$" (included)	ST-281-03
Baby Pipe Clamp	MSE-429-618
Barn Door 8-way $5^{1/8}$" (included)	ST-281-08
Scrim Set 5-piece $5^{1/8}$"	ST-281-07
Safety Cable 30"	167-020

Lamp:	
FRG 500W 3200˚K	904-525

Bambino 650 Fresnel	ST-276-36

Bambino 650 Accessories:	
Filter Frame $6^{5/8}$" (included)	ST-280-47
Baby Pipe Clamp	MSE-429-618
Barn Door 8-way $6^{5/8}$" (included)	ST-288-37
Scrim Set 5-piece $6^{5/8}$"	ST-283-59
Safety Cable 30"	167-020

Lamp:	
FRK 650W 3200˚K	958-090

Bambino 1KW Fresnel	ST-276-46

Bambino 1kW Accessories:	
Filter Frame $7^{7/8}$" (included)	ST-288-49
Baby Pipe Clamp	MSE-429-618
Barn Door 8-way $7^{7/8}$" (included)	ST-288-47
Scrim Set 5-piece $7^{7/8}$"	ST-288-45
Safety Cable 30"	167-020

Lamp:	
EGT 1kW 3200˚K	950-080

Studio 1kW Fresnel	
Manual Operated Fresnel	ST-272-56
Pole Operated Fresnel	ST-272-57

Studio 1kW Accessories:	
Filter Frame $10^{3/16}$" (included)	ST-288-59
Pipe Clamp	207-265
Barn Door 8-way $10^{3/16}$" (included)	ST-288-57
Scrim Set 5-piece $10^{3/16}$"	ST-283-54
Safety Cable 30"	167-020

Lamp:	
EGT 1kW 3200˚K	963-420

Studio 2kW Fresnel	
Manual Operated Fresnel	ST-272-66
Pole Operated Fresnel	ST-272-67

Studio 2kW Accessories:	
Filter Frame $12^{5/8}$" (included)	ST-280-93
Pipe Clamp	207-265
Barn Door 8-way $12^{5/8}$" (included)	ST-280-71
Scrim Set 5-piece $12^{5/8}$"	ST-283-56
Safety Cable 30"	167-020

Lamp:	
CYX 2kW 3200˚K	975-040

LTM Pepper 100

LTM Pepper 420

LTM Pepper 650

LTM Pepper Fresnels

LTM's Pepper line of fixtures offers big quality in small sizes. As rear focusing, miniature quartz Fresnels, the Pepper 100 through 1kW fixtures are the ideal small studio/location lights, providing maximum effect while taking up minimum space.

Die cast aluminum housing means that these fixtures are rugged yet lightweight. All Peppers have a full range of accessories so they can perform just as standard Fresnels can, but with room to spare. The Peppers all include an 11' lead with in-line switch and PBG/U-Ground connector, except the 500/1kW model which upgrades to a 15' lead.

LTM offers a full range of portable Pepper kits packaged in rugged cases for location use. Contact your ELS representative for more details.

Pepper 100	LTM-PH1-54B

Pepper 100 Accessories:	
Filter Frame 3"	LTM-PAA-237
Barn Door 4-way 3"	LTM-PAA-225
Scrim Full Single 3"	LTM-PAA-245
Scrim Half Single 3"	LTM-PAA-270
Scrim Full Double 3"	LTM-PAA-244
Scrim Half Double 3"	LTM-PAA-269
Safety Cable 30"	167-020
Snoot Set 4-piece 3"	LTM-PAA-240

Lamps:	
ESR 100W 2850˚K	924-030
FEV 200W 3200˚K	934-000

Pepper 300	LTM-PH1-65F

Pepper 300 Accessories:	
Filter Frame 4¼"	LTM-PAA-238
Barn Door 4-way 4¼"	LTM-PAA-395
Scrim Full Single 4¼"	LTM-PAA-247
Scrim Half Single 4¼"	LTM-PAA-249
Scrim Full Double 4¼"	LTM-PAA-246
Scrim Half Double 4¼"	LTM-PAA-248
Safety Cable 30"	167-020
Snoot Set 4-piece 4¼"	LTM-PAA-232

Lamps:	
FKW 300W 3200˚K	940-428
FEV 200W 3200˚K	934-000

Pepper 420	LTM-PH1-54E

Pepper 420 Accessories:	
Filter Frame 4¼"	LTM-PAA-238
Barn Door 4-way 4¼"	LTM-PAA-395
Scrim Full Single 4¼"	LTM-PAA-247
Scrim Half Single 4¼"	LTM-PAA-249
Scrim Full Double 4¼"	LTM-PAA-246
Scrim Half Double 4¼"	LTM-PAA-248
Safety Cable 30"	167-020
Snoot Set 4-piece 4¼"	LTM-PAA-232

Lamp:	
EKB 420W 3200˚K	945-000

Pepper 650	LTM-PH1-54H

Pepper 650 Accessories:	
Filter Frame 5"	LTM-PAA-239
Barn Door 4-way 5"	LTM-PAA-227
Scrim Full Single 5"	LTM-PAA-251
Scrim Half Single 5"	LTM-PAA-253
Scrim Full Double 5"	LTM-PAA-250
Scrim Half Double 5"	LTM-PAA-252
Safety Cable 30"	167-020
Snoot Set 4-piece 5"	LTM-PAA-231

Lamps:	
EKB 420W 3200˚K	945-000
EKD 650W 3400˚K	958-000

Pepper 500/1kW	LTM-PH1-51H

Pepper 500/1kW Accessories:	
Filter Frame 7½"	LTM-HAA-563
Barn Door 4-way 7½"	LTM-HAA-80
Scrim Full Single 7½"	LTM-HA4-453-10
Scrim Half Single 7½"	LTM-HA4-453-11
Scrim Full Double 7½"	LTM-HA4-453-12
Scrim Half Double 7½"	LTM-HA4-453-13
Safety Cable 30"	167-020
Snoot Set 4-piece 7½"	LTM-PAA-347

Lamp:	
EGN 500W 3200˚K	950-160
EGT 1KW 3200˚K	963-420

200W HMI Daylight Fresnel

2.5kW HMI Daylight Fresnel

Strand Quartzcolor HMI Daylight Fresnels

Strand Quartzcolor's UL listed HMIs are the only line of daylight single-ended lamp fresnels developed from the beginning as a complete family with the location lighting market in mind. With versatility, superior optics, excellent performance, ease of use and maintenance, these two families are the natural choice of professionals.

HMI Daylight Fresnels (Heads) are supplied with filter frame, 8-leaf barn door, and a 25' extension cable; lamp not included. Complete HMI Fresnel packages are supplied with yoke, wire guard, filter frame, 8-leaf barn door, scrim set, 25' head cable, flight case, and electronic ballast; lamp not included. Magnetic ballasts are also available.

575W HMI Daylight Fresnel

200W HMI Daylight Fresnel Kit	ST-270-29

200W HMI Accessories:	
Filter Frame 4 1/4" (included)	ST-280-80
Barn Door 8-way 4 1/4" (included)	ST-281-08
Scrim Set 5-piece 4 1/4"	ST-281-07
Wire Guard 4 1/4"	ST-5240-180
Head Cable 25'	ST-288-24
Electronic Ballast	ST-259-21

Lamp:	
HMI 200W 5600°K SE	900-000

1.2kW HMI Daylight Fresnel	ST-270-56

1.2kW HMI Accessories:	
Filter Frame 10" (included)	ST-288-59
Barn Door 8-way 10" (included)	ST-288-57
Scrim Set 5-piece 10"	ST-283-54
Wire Guard 10"	ST-5360-180
Head Cable 50'	ST-288-30
Electronic Ballast	ST-250-30

Lamp:	
HMI 1.2kW 5600°K SE	902-045

2.5kW Daylight Fresnel	ST-270-66

2.5kW HMI Accessories:	
Filter Frame 13" (included)	ST-280-93
Barn Door 8-way 13" (included)	ST-280-71
Scrim Set 5-piece 13"	ST-283-56
Wire Guard 13"	ST-5370-180
Head Cable 50'	ST-288-32
Electronic Ballast	ST-250-40

Lamp:	
HMI 2.5kW 5600°K SE	900-155

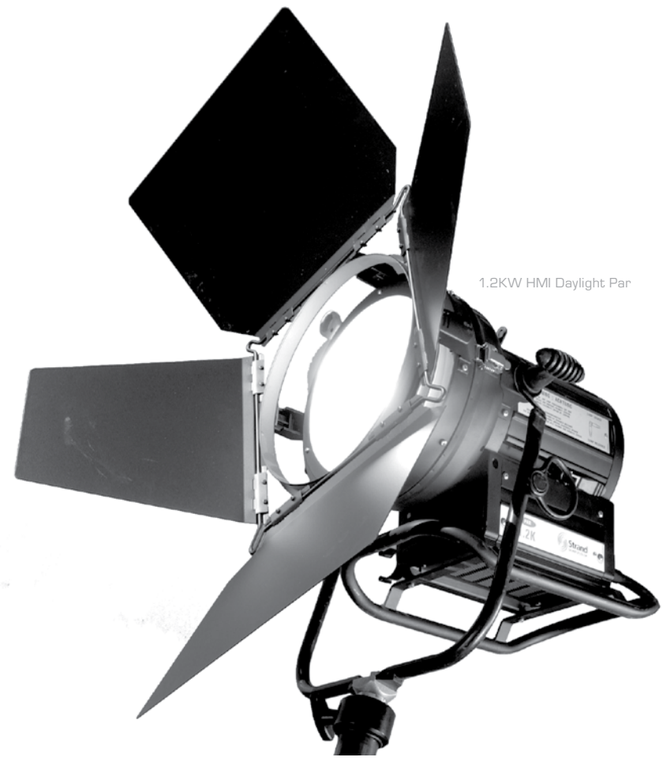
575W HMI Daylight Fresnel	ST-270-46

575W HMI Accessories:	
Filter Frame 7¼" (included)	ST-280-47
Barn Door 8-way 7¼" (included)	ST-288-47
Scrim Set 5-piece 7¼"	ST-288-45
Wire Guard 7¼"	ST-5350-180
Head Cable 50'	ST-288-30
Electronic Ballast	ST-259-41

Lamp:	
HMI 575W 5600°K SE	900-035

200W HMI Daylight Par

575W HMI Daylight Par



1.2KW HMI Daylight Par

Strand Quartzcolor HMI Daylight Pars

Strand Quartzcolor's UL listed Pars are the only range of parlights designed as part of a complete family and developed specifically for the location lighting market. No other range of parlights in the market today provides as many benefits as Strand's Quartzcolor, with its superior optics, ease of use and ease of maintenance. HMI Daylight Pars (Heads) are supplied with yoke, wire guard, 8-leaf barn door, lens set with case, and a 25' head cable; the lamp and ballast are not included. Complete HMI Par packages are supplied with yoke, wire guard, 8-leaf barn door, lens set, 25' head cable, scrim set, flight case, and an electronic ballast; the lamp is not included. Magnetic ballasts are also available.

200 Watt HMI Daylight Par Kit	ST-275-29

200 Watt HMI Par Accessories:	
Filter Frame 6 5/8"	ST-280-47
Barn Door 8-way 6 5/8" (included)	ST-288-37
Scrim Set 5-piece 6 5/8"	ST-283-59
Lens Set 5-piece	ST-288-28
Lens Case	ST-288-11
Wire Guard 6 5/8" (included)	ST-542-03
Head Cable 25"	ST-288-24
Flight Case	ST-288-01
Electronic Ballast	ST-259-21

Lamp:	
HMI 200W 5600°K SE	900-000

575 Watt HMI Daylight Par Kit	ST-275-49

575 Watt HMI Par Accessories:	
Filter Frame 9"	ST-280-86
Barn Door 8-way 9" (included)	ST-281-11
Scrim Set 5-piece 9"	ST-283-55
Lens Set 5-piece	ST-288-38
Lens Case	ST-288-11
Wire Guard 9" (included)	ST-545-03
Head Cable 25'	ST-288-03
Flight Case	ST-288-01
Electronic Ballast	ST-259-41

Lamp:	
HMI 575W 5600°K SE	900-035

1.2kW HMI Daylight Par	ST-275-56

1.2 kW HMI Par Accessories:	
Filter Frame 12 5/8"	ST-280-93
Barn Door 8-way 12 5/8" (included)	ST-280-71
Scrim Set 5-piece 12 5/8"	ST-283-56
Lens Set 5-piece	ST-288-48
Lens Case	ST-288-12
Wire Guard 12 5/8" (included)	ST-5460-180
Head Cable 50'	ST-288-31
Flight Case	ST-288-01
Electronic Ballast	ST-250-30

Lamp:	
HMI 1.2kW 5600°K SE	902-455

Strand lanebeam Redhead

Strand's Redheads are lightweight, powerful open-faced fill lights made of heat-insulating glass fiber reinforced polyester, with a focusing mechanism at the rear of each unit. At 15', the 650 Watt unit produces a 9.5' diameter, 105 footcandle beam in spot focus, and at a 25' throw the 1kW unit produces a 14.3' diameter, 89 footcandle beam in spot focus. Both models include a yoke with 5/8" receiver, barn door, accessory holder, and 13' cord with in-line switch and molded PBG/U-Ground connector.

650 Watt Redhead	ST-271-46
1kW Redhead	ST-271-56

Redhead Accessories:	
Baby Pipe Clamp	MSE-429-618
Barn Door 4-way 6 9/16"	ST-288-022
Accessory Holder	ST-280-21
Scrim Set 5-piece	ST-283-52
Lamps:	
FBX 650W 3200°K Frost	958-020
DXW 1kW 3200°K Clear	963-000

Strand lanebeam Blonde

The 2kW Blonde is a powerful open-faced floodlight with a focusing knob at the rear of the unit. At 30', it produces a 20.4' diameter, 125 footcandle beam in spot focus. Includes a yoke with 5/8" receiver, a 16' cord with in-line switch, barn door, and integral accessory holder.

2kW Blonde	ST-211-06

Blonde Accessories:	
Baby Pipe Clamp	MSE-429-618
Barn Door 4-way 10 3/16"	ST-280-50
Scrim Set 5-piece	ST-283-54
Lamps:	
FER 1kW 3200°K Clear	963-120
FEY 2kW 3200°K Clear	975-000

Strand Arturo Softlights

This Motion Picture/ TV utility fixture was originally designed for medium-sized studios or as a location fill light. The 2kW model uses two FFT 1kW lamps, and the 4kW/ 6kW unit uses four 1kW or 1.5kW lamps. In both models, lamps can be operated individually, or combined for virtually shadow-free diffused illumination. Includes 1 1/16" spigot, pipe clamp, filter frame and a 3' power cable.

Arturo 2000	ST-265-21
Arturo 4000/6000	ST-265-41

Arturo Accessories:	
Filter Frame 2kW	ST-283-15
Filter Frame 4kW/6kW	ST-283-18
Egg Crate 2kW	ST-283-13
Egg Crate 4kW/6kW	ST-283-16
Lamps:	
FFT 1kW 3200°K Clear	963-140
FDB 1.5kW 3200°K Clear	973-000

LTM Pepper 400 Soft

The Pepper 400 Soft is compact in size with the lightweight qualities of Pepper Fresnels, but provides a more textured fill or base lighting. This soft light maintains a compact size and low weight despite its rugged, solid, perforated sheet steel construction. Features a compressible single contact socket and comes with an 11' lead and PBG/U-Ground connector.

Pepper 400 Soft	LTM-PH4-12

Pepper Accessories:	
Filter Frame 5 1/8" x 6 1/2"	LTM-PA-304-12
Egg Crate	LTM-PA-504-12
Lamp:	
FDA 400W 3200°K Clear	943-010

Strand Bambino Quik-Kit I

Strand Bambino Quik-Kit I

Using the powerful Bambino 650 Fresnels in combination with a 1kW Redhead flood, a lot of light comes in this small package. A softbox completes this performance package.

Bambino Quik-Kit I	ST-968-01
3 -Bambino Fresnels	
3 -Filter Frames	
3 -Barn Doors 4-way	
3 Full Double Scrims 6 5/8"	
3 Full Single Scrims 6 5/8"	
3 650 Watt FRK Lamps 3200°K	
1 Redhead lanebeam 1kW	
1 Accessory Holder	
1 Wireguard	
1 Barn Door 4-way	
1 Full Double Scrim 7 9/16"	
1 Full Single Scrim 7 9/16"	
1 1kW EGT Lamp 3200°K	
4 Lightweight Stands	
1 Softbox for Redhead	
1 Speed Ring for Redhead	
1 Accessory Pack Bag	
1 Ditty Back	
1 Clothes Pins (18 pack)	
1 25' Extension Cable with Triple Tap	
1 Fresnel Lamp Pack	
1 Pair of Leather Grip Gloves	
1 Large Carrying Case	

Strand Bambino Quik-Kit II

Strand Bambino Quik-Kit II

The Bambino 500 featured in this kit has a unique single arm yoke for stand and close ceiling mounting, a softbox and Redhead flood luminaire complete this package.

Bambino Quik-Kit II	ST-968-02
1 Bambino 650 Fresnel	
1 Filter Frame	
1 Barn Door 4-way	
1 Full Double Scrim 6 5/8"	
1 Full Single Scrim 6 5/8"	
1 650 Watt FRK Lamp 3200°K	
2 Bambino 500/300 Fresnels	
2 Filter Frames	
2 Barn Doors 4-way	
2 Full Double Scrims 5 1/8"	
2 Full Single Scrims 5 1/8"	
2 500 Watt FEV Lamps 3200°K	
1 Redhead lanebeam 1 kW	
1 Accessory Holder	
1 Wireguard	
1 Barn Door 4-way	
1 Full Double Scrim 7 9/16"	
1 Full Single Scrim 7 9/16"	
1 1kW EGT Lamp 3200°K	
4 Lightweight Stands	
1 Softbox for Redhead	
1 Speed Ring for Redhead	
1 Accessory Pack Bag	
1 Ditty Back	
1 Clothes Pins (18 pack)	
1 25' Extension Cable with Triple Tap	
1 Fresnel Lamp Pack	
1 Pair of Leather Grip Gloves	
1 Large Carrying Case	

Strand Redhead Quik-Kit IV

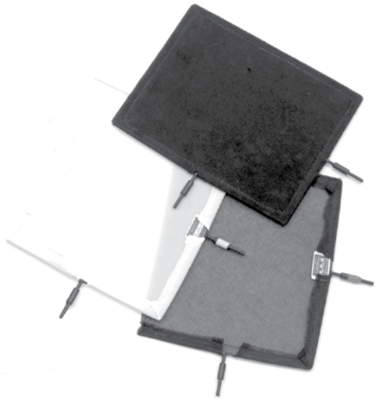
Strand Redhead Quik-Kit IV

The cool fiberglass Redhead open face luminaries in Quik-Kit IV are ideal for fast set up and strike. Bright and lightweight, each Redhead provides solid reliable performance. A complete accessories set is included.

Redhead Quik-Kit IV	ST-968-04
4 Redheads lanebeam 1kW	
4 Accessory Holders	
4 Wireguards	
4 Barndoors 4-way	
4 Full Double Scrims 7 9/16"	
4 Full Single Scrims 7 9/16"	
4 1kW EGT Lamps 3200°K	
4 Lightweight Stands	
1 Softbox for Redhead	
1 Speed Ring for Redhead	
1 Accessory Pack Bag	
1 Ditty Back	
1 Clothes Pins (18 pack)	
1 25' Extension Cable with Triple Tap	
1 Fresnel Lamp Pack	
1 Pair of Leather Grip Gloves	
1 Large Carrying Case	

These Quartzcolor Quik-Kits from Strand feature great light output and rugged durable construction, and are easy to use and maintain.Strand also customizes to suit individual requirements utilizing its full range of portable units.

Flex Scrims



Flags and Cutters

Flags and cutters totally hold back light. The only difference between them is that a flag is square, while a cutter is long and narrow. Besides blocking light off a set, their black material construction makes them very useful to shield ambient light from the camera lens.

Flags	
Flag 12" x 18"	MSE-169-042
Flag 24" x 36"	MSE-169-062

Cutters	
Cutter 10" x 42"	MSE-169-003
Cutter 18" x 48"	MSE-169-004

Scrims and Diffusers

Scrims - or nets - are non-electrical dimmers. They provide a simple way of reducing output from a light source, without affecting a fixture's color temperature when a beam's intensity and brightness are too "hot." They provide shadowless diffusion.

Scrims	
12" x 18" Single Scrim	MSE-149-052
12" x 18" Double Scrim	MSE-149-058
12" x 18" Triple Scrim	MSE-149-169

Diffusers	
12" x 18" Silk Diffuser	MSE-149-043
12" x 18" Lavender Diffuser	MSE-149-044

Cucoloris

Cucoloris

Cucoloris - or "cookies" - are used to break up light and create a shadowlike pattern on backgrounds or subjects.

Wood cucoloris create distinct patterns, while celo cucoloris create less defined, subtle patterns.

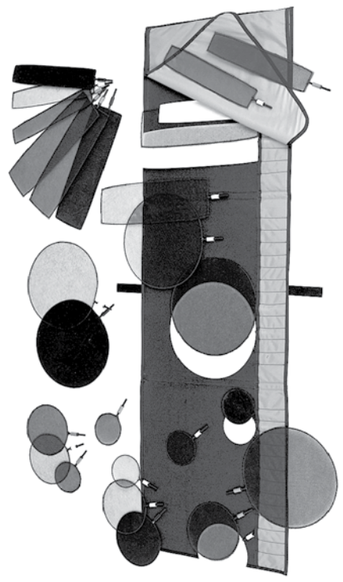
Cucoloris	
18" x 24" Wood Cucoloris	MSE-189-093
18" x 24" Celo Cucoloris	MSE-199-101
24" x 36" Wood Cucoloris	MSE-189-094
24" x 36" Celo Cucoloris	MSE-199-102

Flex Scrims

Flex scrims are smaller than scrims, but larger than dots and fingers. Like nets/scrims, they provide shadowless diffusion.

Flex Scrims	
10" x 12" Single Flex Scrim	
Open Ended	MSE-238-120
10" x 12" Double Flex Scrim	
Open Ended	MSE-238-121

Dots and Fingers



Dots and Fingers

Dots and fingers help to fine-tune lighting. They function as miniature scrims or flags when placed in front of a light source to control lighting in small, specific areas.

Dots	
6" Single Dot	MSE-219-066
10" Double Dot	MSE-219-710
18 piece set at 3",6", 10"	MSE-219-005

Fingers	
4" x 14" Finger	MSE-229-724
12 piece Set at 2" x 12" and 4" x 14"	MSE-229-076

Reflectors

Reflectors are used to redirect artificial or natural light. They also aid in both spot and fill lighting.

Reflectors	
24" x 24" Aluminum Hand Reflector with Adjustable Yoke, 5/8" Socket	MSE-119-069
24" x 24" Reflector Box 2-place	MSE-119-054
24" x 24" Reflector Box 4-place	MSE-119-055

Baby Drop Down

Clamps+Accessories

Stand Extensions	

A detachable riser or additional riser for a standard stand used to add additional height. The extension comes in either a male pin or a junior receiver. When mounted in conjunction to a wall plate it can be used with additional telescoping risers.

18" Baby Stand Extension w/ 5/8" Pin	MSE-426-017
36" Junior Stand Extension w) 1 1/8" Receiver	MSE-426-019
36" Single Extension Hanger Terminates in 1/2" Female Thread	MSE-429-676
36" to 72" Double Extension Hanger Terminates in1/2" Female Thread	MSE-429-677
Baby Matthews Boom with 1 1/8" Tapped Receiver and 5/8" Pin	MSE-427-801

Side Arms	

A side arm is any arm (baby or junior) which attaches directly to the tubular portion of the stand.

Baby Side Arm with Double Ended 5/8" Pin	MSE-429-586
Junior Side Arm with 1 1/8" Receiver	MSE-429-585

Headers	
Baby Double Header with 5/8" Receiver and Two 5/8" Pins	MSE-429-581
Baby Triple Header with 5/8" Receiver and Three 5/8" Pins	MSE-429-580
Junior Triple Header with 1 1/8" Receiver Mount and Three 1 1/8" Receivers	MSE-429-617

Combo Stud Adapter	
TV/MP Adapter 1 1/8" to 5/8" Pin	MSE-429-492

Furniture Clamps

Pipe Clamps and Adapters	

Pipe clamps are fitted with either a male pin or junior receptacle and have a screw tightening jaw action. Pipe adapters are thumbscrew locking adaptors with a male pin that is angled to allow mounting to tubular surfaces or pipes.

Baby Pipe Clamp with 5/8" Pin	MSE-429-618
Junior Pipe Clamp with 1 1/8" Receiver	MSE-429-619
Baby Pipe Adapter with 5/8" Pin	MSE-429-597

Furniture Clamps	

A long slender rod-like clamp which may be adjusted to widths greater than the jaws of the flex arm or used to secure heavier objects.

12" Clamp with Adjustable 5/8" Pin	MSE-429-584
24" Clamp with Adjustable 5/8" Pin	MSE-429-593

Drop Ceiling Scissor Clamps	

A clamp used to attach to the T-bar portion of a dropped ceiling.

Scissor Clamp with 5/8" Pin	MSE-429-678
Scissor Clamp with 1/2" Pin	MSE-429-733

Gaffer Grip	

A jaw mount with a Male pin attached to one of the jaws. The inner sides of the jaws have rubber teeth to protect against damage.

Gaffer Grip with Two 5/8" Pins and Adjustable Jaws	MSE-B429-587

Plates	
3" Baby Plate with 5/8" Pin	MSE-429-041
Right Angle Baby Plate with 5/8" Pin	MSE-429-590
Junior Wall Plate with 1 1/8" Receiver	MSE-429-582

Junior Trombone

Trombones	

Designed to hang over walls, balconies, or sets positioned against the flat surface for support of light fixtures, with telescoping shafts and fitted with a male pin or junior receiver.

Baby Trombone with 5/8" Pin	MSE-429-046
Junior Trombone with 1 1/8" Receiver	MSE-429-047

Drop Downs and Wall Spreaders	

Drop down adapters have a baby male pin or junior receiver allowing it to pivot at an angle away from the mount. A wall spreader is used between 2 walls with its 2" x4" lumber studs that are anchored by inserting the lumber into slots, nailing the studs to the slots and center mounting yoke and adjusting it with screw base pressure.

Baby Drop Down	MSE-427-804
Junior Drop Down	MSE-427-805
2' x 4' Wall Spreader	MSE-429-016

Apple Boxes	

A multipurpose wooden support used to change the elevation of subjects in relation to the camera.

Full Apple Box	168-500
1/2 Apple Box	168-505
1/4 Apple Box	168-510
1/8 Apple Box (pancake)	168-515

Filled Sandbags	
15lb. Butterfly Sandbag	306-400

Magic Stand

With the runaway base added the Magic Stand can become a regular rolling light stand. It can be a high rolling light stand and it can also convert to a two section light boom with its own rolling stand. Highly versatile, lights can be placed at floor height, or behind a hair light, or over a table for a product shot. Made with a standard 11/8" Junior Pin at the bottom the Magic Stand riser could be added to a Combo Stand as a stand extension, or inverted to hang from a C-Clamp into the set.

Magic Stand	
Magic Stand with Runaway Base 54½"-150"	MSE-999-042
Runaway Base Only	MSE-388-201

Roller Stands

Also called Overhead Stands, Roller Stands are widely used in the studio and on location. Wide, castered bases, which can be partially opened for use in tight working spaces, provide stability and easy mobility. Supplied with 4½" grip head, 11/8" receiver, and casters.

Roller Stands	
14' Medium Roller 60" to 170"	MSE-377-573
18½' Hi-Hi Roller 83" to 240"	MSE-377-574

Baby Stands

Larger and heavier than Kit Stands, Baby Stands are also available in a variety of sizes and models.

Baby Stands	
Beefy Baby Double Riser with Leg 37" to 99"	MSE-386-030
Beefy Baby Triple Riser with Leg 45" to 144"	MSE-387-031
Baby/Junior Double Riser 5/8" Pin 46" to 114"	MSE-386-025

Century Stands

Century Stands - or "C" Stands - are used throughout the entertainment industry. Capable of supporting most any lighting tool, these sturdy stands fit almost anywhere.

Century Stands	
30" Folding Double Riser, with Sliding Leg	MSE-339-562
30" Folding Double Riser	MSE-339-561
40" Folding Double Riser	MSE-339-564
60" Folding Double Riser	MSE-339-568
2½" Grip Head only	MSE-349-575
40" Extension Arm	MSE-680-004
Grip Head, with Single Extension Arm	MSE-680-005

Mini-Vator Stand

The Mini-Vator Stand is a light duty crank stand for smaller fixtures weighing no more than 125 lbs. Ideal for pars, strobes, light boxes and small light booms. Equipped with a Rocky Mountain Leg, its unique brace design makes for a convenient stair step midway up center column. Tuck away handle for storage.

Mini-Vator "Light Lift" Stand	
Light Lift Stand 60" - 98"	MSE-389-495
Double Riser, 66" - 144"	MSE-389-496
Adapter Wheels	MSE-366-032

Junior/Senior Stands

With sturdy all-steel construction, these stands are used for Junior, Senior, and HMI lighting fixtures. Supplied with 11/8" receiver, 5/8" pop-up pin and casters.

Junior/Senior Stands	
Junior Stand, 51" - 114"	MSE-386-021
Junior Stand, 56" - 154"	MSE-386-022
Senior Stand, 56" - 126"	MSE-386-027

Combo Stands

Originally designed for use with reflectors, these stands are known for their rugged design and each is made with a Rocky Mountain Leg for leveling. The addition of the universal pop-up casting and a 5/8" pin make the Combo Stand ideal for use with lighting fixtures and/or reflectors. Available in steel or aluminum.

Combo Stands	
Double Riser Combo 48" - 134"	MSE-369-573
Lightweight Double Riser Combo 48½" - 132"	MSE-366-070
Low Boy Double Riser Combo 33½" - 76½"	MSE-366-066

Kit Stands

Lightweight, stationary stands available in a variety of sizes and models.

Kit Stands	
Light/ Medium Kit Stand 29½" to 82"	MSE-B387-483
Medium Duty Kit Stand 33" to 102"	MSE-B387-477
Medium Duty Maxi Kit Stand 36" to 113½"	MSE-B389-788

Crank-O-Vator Stand

Crank-O-Vators are portable hand crank elevators used for large, heavy lighting fixtures weighing up to 150 lbs. Its double riser system elevates both sections at the same time, and its unique cranking system design prevents reversing under load when the safety clutch is set. Constructed of a combination of steel for strength and aluminum for its light weight provides for a robust stand with relatively little weight.

Crank-O-Vator Stand	
Crank-O-Vator 62"-139"	MSE-387-580
Low Boy Crank-O-Vator 38"-66"	MSE-387-579
Super Crank-O-Vator 62"-139"	MSE-387-581

GRIP

1] A stagehand who helps in shifting scenery.
2] A member of a film production crew who adjusts sets, lighting, and props and sometimes assists the camera operator.

A Grip is a term that dates back to the early era of the circus. It carried on from there to vaudeville and on to today's music and film soundstages and sets. Some have suggested the name comes from the 30's-40's slang term for a tool bag or "grip" that these technicians use to carry their equipment to work.

In the U.S., grips are trained lighting and rigging technicians. They make up their own department on a film set and are led by a key grip. The main responsibilities of a grip are to work closely with the electrical department to put in the lighting set-ups necessary for a shot.

In Hollywood, a grip is not allowed to touch the lights themselves. Lighting is handled by the electricians who work under a "gaffer". Grips do, however, handle all of the equipment not directly attached to the lights that filter or block the light. In exterior shooting (outside), they perform the same function -- shading or filtering sunlight. The rigging for these exterior shots can become quite extensive.

On the sound stage (in the studio), they are responsible for moving and adjusting major set pieces (e.g. walls) when something needs to be moved to get a camera into position.

They also work closely with the camera department, especially if the camera is mounted to a dolly, crane or other unusual position. Some grips may specialize in operating camera dollies or cranes. U.S. grips may belong to the International Alliance of Theatrical and Stage Employees, which is their union.

Outside of Hollywood, particularly for "non-union" productions, the line of distinction between a grip and an electrician is often blurred, with most of the lighting crew simply referred to as grips and, paradoxically, their boss being referred to as the gaffer (who is in charge of the electricians in Hollywood, but not directly responsible for the grips).

In the U.K. and Australia, grips mostly work on setting up and taking care of the camera mounting equipment.

Key grip: the foreman of the grip department
Best boy grip or second company grip: assists the key grip in logistical issues (scheduling crew and equipment rental)
Company grip or gang grip: the average grip
Construction grip: constructs and dismantles the set
Dolly grip: operates the dollies or swings the crane

ETC SmartPack

Responding to the needs of the portable dimming industry, ETC brings the Sensor level of technology to portable dimmer packs with the introduction of SmartPack. The SmartPack line of portable dimmer packs is designed to provide thyristor-based, professional quality dimming in a rugged 19-inch 2U rack mount package. Available with either six 20A dimmers or twelve 10A dimmers, SmartPack is the simple-to-use lighting-control solution for small theatres or roadshow applications; bands, DJ's, or danceclubs; nightclub acts, school and church programs. SmartPack is DMX512A compatible, RDM-ready and a whole lot more. With the built-in presets and sequencer, SmartPack can run on its own for permanent displays and presentations, no need for a console. The sequencer makes it easy to program sophisticated fade and wait times directly from the face panel. Once programmed, the Auto-Restart option allows for completely unattended operation day after day.

SmartPack	
12 x 10A, SPG	ETC-702-0A1-001-B
6 x 20A, SPG	ETC-702-0A1-000-B

Also available with L5-20, PBG, VSC and Terminal.

SmartBar combines a proven design (over 5,000 sold in Europe) and a innovative package to provide another Smart Solution. SmartBar provides an integrated dimming and fixture mounting solution for low and medium power applications.

SmartBars that accept a 20A 1p input can be connected to a standard wall outlet for "anywhere dimming." All the SmartBar products include 16 built-in chases for unattended operation. Each dimmer curve can be changed at the control module which also provides a DMX input and thru connector.

SmartBAR	
2 x 6A, SPG	ETC-750-1A1-250-2B
4 x 6A, SPG	ETC-750-1A1-951-0B
2 x 10A, SPG	ETC-750-1A1-250-3MB
6 x 10A, SPG	ETC-750-1A1-970-9MB

ETC SmartPack Touring System

The SmartPack Touring System is another new member of the SmartPack family, a small rugged touring rack with up to 24 dimmers and incredible reliability. With its industrial grade road case, the Touring System is perfect for anything from weekend gigs to regional festivals and small touring productions. The rack has built-in mains distribution with breakers and RCD protection.

SmartPack Touring System	
12 x 20A	ETC-2XS-L6-20
24 x 20A	ETC-4XS-L6-20
24 x 10A	ETC-2XS-L12-10
48 x 10A	ETC-4XS-L12-10

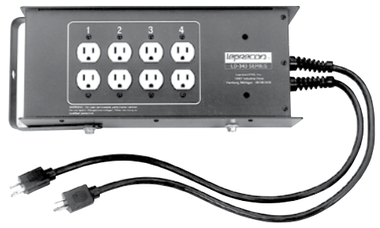
Please specify output connector for all orders.

ETC SmartPack Wall Mount

The SmartPack Wallmount Unit is perfect for small venues and compact spaces that need quality permanent dimming. It can be installed directly without any other parts, ensuring lowest possible cost of ownership. With built-in presets and sequencer, SmartPack can run on its own – without a console – automating permanent displays and presentations. The Auto Re-start provides convenient hands-off operation day after day. The Sequencer makes setting up fade times and hold times easy and intuitive.

SmartPack Wallmount	
12 x 10A	ETC-702-1A1-001
6 x 20A	ETC-702-1A1-000

Leprecon Tree Mount Dimmer



Leprecon 300 Series Tree-Mount Dimmers

Small, powerful and easy to use, Leprecon's solidly designed and constructed dimmers are compatible with all styles of consoles.

These inexpensive 300 Series tree-mount dimmers feature illuminated full magnetic circuit breakers to protect electronic components, dual SCR power devices for unsurpassed reliability, quality line noise filtering to eliminate buzz and interference in audio equipment and PBG/U-ground input/output.

Choose between the 2.4kW per pack version or the "HP" version, which offers 4.8kW per pack.

300 Series Tree-mount Dimmers	
6 Channel LD-360A-HP	
8-pin CJ, Analog	LEP-900-600-04
6 Channel LD-360MPX	
3-pin XLR, Microplex	LEP-900-600-22
6 Channel LD-360MPX-HP	
3-pin XLR, Microplex	LEP-900-600-23
6 Channel LD-360DMX	
5-pin XLR, DMX	LEP-900-600-24
6 Channel LD-360DMX-HP	
5-pin XLR, DMX	LEP-900-600-25

ETC Sensor Portable Pack

ETC Sensor Portable Pack

Built to the same high quality standards as ETC Sensor Installation racks, these sturdy, all-metal packs are ideal for small tours, theatres, production facilities, and convention presentations. Coming in two sizes, the SP12 supports six dual 1.8kW or 2.4kW, six single 6.0kW, or three 12.0kW dimmer modules. The SP24 can handle 12 dual 1.8kW or 2.4kW, 12 single 6.0kW, or six 12.0kW dimmer modules. The powerful CEM+ control electronics module features the added functionality of a network with a graphic user interface. The CEM+ receives and manages Ethernet control signals as well as two DMX-512 inputs. All of the following dimmer packs are also available with PBG, L5-20 or Terminal Strip outputs.

Sensor Portable Pack	
Sensor Pack	
12 x 20A, SPG	ETC-715-2A1-002
Sensor Pack	
24 x 20A, SPG	ETC-715-2A1-102
Sensor Pack	
6 x 50A, SPG	ETC-715-2A1-007
Sensor Pack	
3 x 100A, SPG	ETC-715-2A1-008

Strand CD80 Dimmer Pack

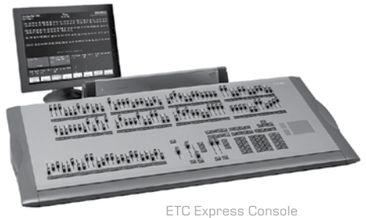
Strand CD80 Dimmer Pack with Digital Control

Strand's CD80 Dimmer Pack is one of the most reliable dimming products ever made and the standard by which all other dimmers are judged. The CD80 is available in a full range of power capacities. Its plug-in control module accepts multiple protocols (DMX-512, AMX-192, +10VDC Analog) and has 4-pin and 5-pin XLR and Analog front panel control connectors. The CD80 can accommodate either single phase 120/208 Volt AC, or three phase 120 Volt AC input power, with versatility from several output connector configuration options and rugged "bulletproof" construction.

12 x 2.4kW Pack 20 Amp/120 Volt	
TLG/Twistlock	ST-732-10
SPG/Bates	ST-732-11
Terminal Block	ST-732-14
SPG/Bates+Socapex	ST-732-05
TLG/Twistlock+Socapex	ST-732-06

24 x 2.4kW Pack 20 Amp/120 Volt	
TLG/Twistlock	ST-732-40
SPG/Bates	ST-732-41
Terminal Block	ST-732-44
Socapex	ST-732-47

For a quote on a permanent installation, please call your ELS Sales Representative.



ETC Express Console

ETC Expression 3 Console

ETC Emphasis Control System

ETC Express Control Consoles

Ideal for high schools, churches, small to medium theatres or video productions, ETC's Express is a low-cost, high performance memory lighting control console.

Controlling 1,024 DMX-512 dimmers utilizing any channel configuration from 24 to 250, these consoles can store up to 600 cues and 500 groups. 24 overlapping submasters with bump buttons give manual access to ten pages of submaster memory. A touch-sensitive X/Y trackpad allows for control of simultaneous moving fixture/scroller control.

The Express line is fully network ready, and can be used as a faceplate for the Emphasis Server System. Online help menus, user prompts, a comprehensive manual, and intuitive operation make this console easy to use.

Express Consoles	
Express 24/48	ETC-411-0A1-005
Express 48/96	ETC-411-0A1-004
Express 72/144	ETC-411-0A1-003
Express 125	ETC-411-0A1-002
Express 250	ETC-411-0A1-001

Wired Remote Focus Unit	ETC-403-1A1-003

LCD Display and integral keypad allow you to set channel levels, check dimmers or run cues from virtually any location in your theatre or studio.

VGA Monitor	POA

ETC Expression 3 Control Console

Expression has been the console of choice for thousands of venues, earning its popularity through clean, consistent operation and unparalleled reliability. Now the Expression 3 builds upon this experience to provide a straightforward solution to automated lighting integration.

With the Expression 3, 1,536 dimmers/attributes soft patch into 400, 800 or 1,200 control channels. This console can store up to 600 cues and 500 groups. The console reads DMX-512 control protocol through a 5-pin XLR control connector. With ten pages of 24 overlapping, proportional submasters, dual auto-faders, and many more standard features, this is a top-of-the-line console.

Expression 3 Console	
400 Channel	ETC-413-1A1-004
800 Channel	ETC-413-1A1-008

Wired Remote Focus Unit	ETC-403-1A1-003

LCD display and keypad allow access to the Expression from any location in your theater or studio.

Keyboard	511-603

Assign names to submasters, cues, groups, effects, and shows.

VGA Monitor	POA

ETC Emphasis Control System

Emphasis is the first truly seamless fusion of the world's best-selling line of control consoles with the world's leading lighting design software, WYSIWYG. ETC's Emphasis lighting control system does the work for you: light-plots, hook-ups, instrument schedules, renderings, softpatches, personalities, cueing, track sheets and magic sheets – all the time consuming process of a lighting show are at your fingertips.

Emphasis is a configurable control system. The server is the heart of the system, available in a "2D" and "3D" package, the 3D version offers 3D Cad drafting and visualization. You can choose from 500, 1000, 2500, and 5000 channels (although all channel configurations access 32,767 dimmers). And finally, you can choose the facepanel that is right for you (or that you are already familiar with). Emphasis supports Express, Insight and Expression series consoles. You can even upgrade your existing Express, Insight or Expression console to accommodate the Emphasis control system.

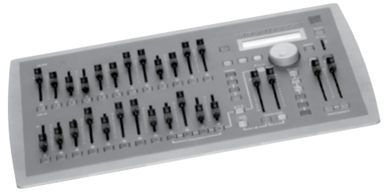
Call ELS today for more details on this unique lighting control system.

Emphasis	
Expression Face Panel	POA
Express 24/48 Face Panel	POA
Emphasis Server 3-D 500-500 Channel	POA

Dimming+Control
Control Consoles

Strand 300 Series

Leprecon LP-624



ETC SmartFade 1248

Strand 300 Series Control Consoles

Strand's 300 Series is available in 24/48 or 48/96 channel manual with memory consoles, and 125, 250, 400, or 600 channel memory consoles. The two tier consoles feature a unique folding design to simplify handling and storage, and touring companies will appreciate the reduced packing space that results. These consoles use the proven Genius Pro/Lightpalette operating software, offering support for Preset or Tracking Style operation for the first time in a small to mid range console.

300 Series Consoles	
24/48 Ch Manual/Memory	ST-957-01
48/96 Ch Manual/Memory	ST-957-02
125 Ch Memory, 24 Subs	ST-957-03
250 Ch Memory, 24 Subs	ST-957-04
400 Ch Memory, 24 Subs	ST-957-15
600 Ch Memory, 24 Subs	ST-957-16
600 Ch Memory, 120 Subs	ST-957-07

Optional Accessories:	
Color Monitor	ST-661-03
Handheld Remote	ST-661-45
Mini Keyboard	ST-662-10
Fader Module	ST-663-00
SMPTE/Midi Card	ST-663-03
Optional Video Card	ST-663-04
Ethernet Card	ST-663-05
Handheld Remote Cable	ST-660-71

Leprecon LP-612+LP-624 Memory Control Consoles

Leprecon's two scene preset, 12 and 24 channel consoles have bump buttons with Add or Solo modes and preset faders for each channel. They feature multi-pattern, multi-step chase memory, cue stacks, full size fader knobs, bright channel LEDs, four pages of memory and dipless crossfaders. These consoles are full featured, yet economical, compact and easy to use. Preview mode allows cues to be checked without bringing up a scene, and manual scene faders allow editing without the need to rerecord an entire cue. XLR 3-pin microplex output lets you hook-up using microphone cable, and the 612-MPX-D/A and 624-MPX-D/A include both DMX and analog output as well. All output protocols can be used simultaneously.

LP-600 Series Memory Consoles	
LP-612MPX	LEP-902-100-20
LP-612MPX-D/A	LEP-902-100-22
LP-624MPX	LEP-902-100-08
LP-624MPX-D/A	LEP-902-100-09

ETC SmartFade

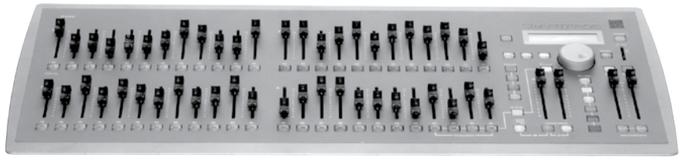
A compact lighting control console that is much more than a two-scene preset board. A compact console with serious power under the hood. Take it to a gig or make it your back-up board in a DMX system. SmartFade gives you big ETC lighting control quality at a compact price. Easy to use, powerful to play with - including a rich special-feature set when you need it.

Features: 48 24-step sequences, 99-step Stack sequence, Manual or timed fades, "Magic" button for random output, "Snapshot" temporary memory storage, Master fader and Black out button, Bumps masterfader and solo, DMX out and DMX in, MIDI in and MIDI out, USB, SD card slot, English, French, German & Spanish LCD support.

SmartFade 1248	ETC-721-9A1-001

SmartFade 2496	ETC-721-9A1-002

Accessories:	
1248 Rack Mount Kit	ETC-721-9K1-001
Spare Power Kit	ETC-SFPS
SD Ram Card	ETC-A11-8



ETC SmartFade 2496

Elektralite CP10xt Universal Controller

CP1Oxt is a universal moving light controller capable of programming a variety of different manufacturers' intelligent lights through the use of extensive libraries already patched and ready for use. Its many features include 128 DMX channels, plus MIDI link, 600 programmable cues, 99 chases with 99 programmable steps and more.

CP1Oxt Controller	ELK-CP1O-XT

High End Systems Hog PC Widget

This cost-effective, flexible hardware and software package transfers many of the Wholehog lighting console's functions to a personal computer so your light show can travel with you. Hog PC offers powerful programming and playback tools in a portable system. Program your show on a Wholehog console and play it back with Wholehog PC. Create cues or run a show from any remote location – even halfway around the world – on a home computer or a laptop. It's ideal as a backup solution.

Hog PC Widget	HE-250-200-07
Playback Wing	HE-610-400-39
Programming Wing	HE-610-400-40

Rosco Horizon Lighting Control

Horizon, along with any of its interfaces, converts your Pentium class personal computer into the most powerful lighting control system available. Horizon software runs under Windows™ 95, 98, NT, 2000, and XP Home. Anyone familiar with Windows will find it easy to bring up channels and program cues with the mouse. If you are familiar with command-line, tracking style consoles, you will find it easy to program Horizon by using keystroke sequences. A combination of both methods makes cueing fast and easy, no matter what your level of experience.

Horizon	
Horizon Silver	ROS-IPS-HZ-SLVR
Horizon Gold	ROS-IPS-HZ-GOLD
DMX Interface	ROS-HZ0-512-120
Submaster Wing	ROS-HZS-WPO-120

Martin Professional LightJockey Software

The LightJockey is the perfect controller for the club and mobile DJ market. Easy to use and logical, the LightJockey is a powerful PC-based DMX controller with a large fixture library, user friendly graphic functionality, advanced shape generator for moving lights, and a Solid Beam Virtual Visualizer. LightJockey interfaces with WinAmp to play a multitude of digital audio files.

LightJockey Software	
LightJockey PCI 512 Channel	MP-907-020-60
LightJockey PCI 2048 Channel	MP-907-020-50
LightJockey USB 512 Channel	MP-907-020-40

High End Systems Hog iPC

The Hog iPC is a small, mid-range controller which is designed to use the Wholehog III operating system and is also backwards compatible with the discontinued Wholehog II operating system for maximum flexibility. The "i" stands for integrated PC motherboard operating via Windows XP Embedded. It contains four universes of DMX output direct from the console, expandable to eight universes using USB DMX Widgets. It includes two 12-inch touchscreens, a backlit trackball, ten playback faders, an internal disk drive, re-writeable CD-Rom, Ethernet connection, and five USB ports for expansion accessories such as playback wing, expansion wing, and additional USB DMX Widgets.

Hog iPC	HE-740-200-01
Super Widget USB/DMX	HE-740-400-01
Playback Wing	HE-610-400-39

For control accessories see page 45.

Dimming+Control Control

High End Systems Whole Hog III

Martin Maxxyz

MA Lighting grandMA Control Console

High End Systems Whole Hog III

The Whole Hog III is similar to the industry standard Wholehog II, but with significant operating system and interface improvements that can help streamline operations, open new creative doors and even lower costs. The console provides two monitor outputs, keyboard and mouse ports, MIDI input and output ports, two USB ports, Fast Ethernet on a rugged Neutrik Ethercon connector, and speakers with stereo audio output. The Wholehog III DP 2000 DMX processor provides the output power for the Wholehog III console. The Wholehog III system doesn't limit you to a fixed number of DMX channels - just add as many DP2000 DMX processors as needed (along with a fast Ethernet switch) to supply the specified number of DMX universes for the production or installation. Each unit features four insolated, half-duplex DMX512 ports and one Fast Ethernet input for a total channel output count of 2048 per unit on four DMX universes.

Whole Hog III	HE-610-200-03
DP 2000 Processor	HE-610-400-32
Midi/TImecode Processor	HE-610-400-03
Rackmount Unit	HE-610-200-09

MA Lighting grandMA Control Console

The grandMA control console offers easy, almost perfect control of extended shows with intelligent lighting, controlling up to 2,048 channels with soft patch to 2,048 DMX addresses. The grandMA accommodates all operation components by eliminating the need for an external computer interface or power supply. The grandMA is even equipped with an internal UPS able to withstand power failure for up to ten minutes.

Features include internal hard disk and disk drive, Ethernet, DMX-512 input, four DMX-512 outputs, sound and SMPTE, an RS232 interface, and a printer port for fast peripheral and software communication support.

grandMA Control Console	MA-120-301
grandMa Light	MA-120-302
Network Signal Processor	MA-130-101

Martin Maxxyz

Maxxyz is the latest professional lighting console from Martin. Among the many features of this console are: an integrated 3-D visualizer which allows you to preview or program in real-time 3D; DVD/CD/CD-R drives, dual 1.2GHz Pentium III CPUs; digital LCD buttons for fast and direct programming; remote capabilities via Ethernet or Internet; built-in intercom station and headset; motorized faders and expansion capability through multiple wing attachments. The Maxxyz offers 8 DMX universes standard (expandable to 32), 4096 channels (expandable to 16384), no fixture per channel limit, 100 playback banks, unlimited cue stacks on virtual cuelists, and effects generator.

Maxxyz (in flight case)	MP-907-320-00
DMX Router	MP-907-581-00
Playback Module	MP-907-321-00
Wing Frame	MP-907-321-01

There are many factors to consider when selecting a Control Console, please call your ELS Sales Representative for expert advice about which system is right for your needs.

CTI Lightwright Software

This program greatly simplifies and automates the paperwork tasks associated with lighting a production. Generate color cut lists, channel and dimmer hookups, and other paperwork, while catching mistakes like overloaded dimmers. Individual version includes a copy of the manual; Corporate/Institutional version includes a site license for six computers and six copies of the manual.

Lightwright Software	
Individual PC/Mac	CTI-385-0
Corporate/ Institutional	CTI-385-5
Student	CTI-387-0

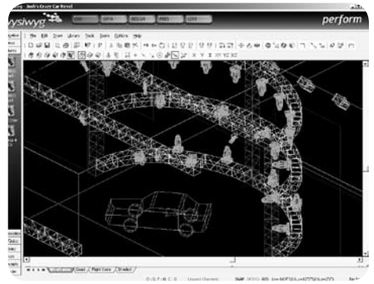
Rosco Lighting Paperwork System

Lighting Paperwork System is a set of software products focused on streamlining the paperwork and information used when designing and implementing entertainment lighting. LPS uses an innovative display system that significantly speeds up the creation of lighting paperwork and using the paperwork information during hang, focus, and tech rehearsals. LPS uses a base set of ten industry standard paperwork layouts, and the user can define any number of more specialized layouts. Users can view the paperwork in multiple layouts simultaneously. Included with LPS is a library of fixtures, colors, templates and lighting supply companies at the users fingertips, inside one application.

If your venue has a repertory schedule or a house hang, LPS is a powerful tool. One of the core concepts to LPS is the idea of "light plots" and "shows". Contained within an LPS file, users can have as many shows using the same set of fixtures with different colors, focus, or patch. Any aspect of the fixture can be changed from show to show, except hanging position. LPS can be used to create show changes reports highlighting the differences between two different focuses. If one show uses a particular fixture and the next doesn't LPS can account for that too.

LPS Pro	ROS-2LPS-PRO-11
Network	ROS-2LPS-NET-11
Student	ROS-2LPS-STU-11

WYSIWYG Software



Instead of CAD, paperwork and visualization software to plan your lighting, use WYSIWYG's integrated tools and enter data just once. Enter plot data into WYSIWYG Report by adding electrics, fixtures and focus positions into a database, so you can sort and print schedules and reports. Or you can choose to begin in the graphical environment of WYSIWYG Design and allow the paperwork to form itself as you draft your plot in 2D and 3D simultaneously.

With the addition of a simulation component, WYSIWYG Perform is an end-to-end solution. 3D CAD, paperwork, rendering, and pre-visualization are integrated into one sophisticated tool. A DMX console or compatible offline editor can be connected to the computer and WYSIWYG Perform will simulate the exact effect of the console's/editor's output in real time.

WYSIWYG Network encompasses the entire product range of the WYSIWYG family of software products. Users can create their productions in 2D or 3D along with all of the necessary paperwork; pre-cue entire shows in real-time; access a comprehensive library of fixtures; and create photo-realistic renderings of their lighting looks. This special WYSIWYG package allows you to run as many licenses as you require of WYSIWYG Report, Design, or Perform all with the use of a single network dongle. WYSIWYG Network can be customized to run a combination of these products simultaneously over a single network.

WYSIWYG Learn includes the WYSIWYG software and a 20 hour on-site installation and training session. WYSIWYG training is mandatory for Educational Institutions without any previous WYSIWYG training. This training is delivered by Authorized WYSIWYG Trainers (AWT). Training includes usage training as well as a suggested curriculum for classes, projects, etc.

WYSIWYG Software	
Report	CAS-301-0A1-181
Design	CAS-301-0A1-182
Perform	CAS-301-3A1-187
Network	CAS-301-0A1-189

GAM Opto-Iso

A compact optical isolator and line splitter, the GAM Opto-Iso optically isolates control signal from power surges and shorts. The unit splits output signal, looping one side directly and optically isolating the other side. The Opto-Iso can be used to isolate auxiliary equipment to prevent feedback.

GAM Opto-Iso	GAM-GT-3240

GAM Test DMX

Use the GAM Test DMX to check for the presence of DMX signal from any control console. This handy unit can also be used to check cables for continuity and shorts. Battery operated, the easy-to-read LED display helps spot problems quickly.

GAM Test DMX	GAM-GT-3220

GAM Command

The GAM Command hand-held DMX control allows the operator to step through each dimmer for lamp check by hitting the "next" button, call up any dimmer at any percentage and/or fade up or down. It can call up randomly selected groups of dimmers to switch back and forth between individual dimmers and the group when focusing. "Preheating" allows for minimal filament stress during lamp check or focus. Ideal as a battery powered backup tool and tester, it checks for DMX signal, provides signal for bench testing fixtures and can actually focus a show when the control console is unavailable.

GAM Test DMX	GAM-GT3-202

Data Cable

5' 3-pin DMX	516-190
10' 3-pin DMX	516-191
25' 3-pin DMX	516-193
50' 3-pin DMX	516-194
75' 3-pin DMX	516-195
100' 3-pin DMX	516-196
5' 4-pin DMX	516-160
10' 4-pin DMX	516-165
25' 4-pin DMX	516-170
50' 4-pin DMX	516-175
100' 4-pin DMX	516-180
5' 5-pin DMX	516-130
10' 5-pin DMX	516-133
25' 5-pin DMX	516-137
50' 5-pin DMX	516-140
75' 5-pin DMX	516-143
100' 5-pin DMX	516-146
XLR Adapter 3 to 5	180-949
XLR Adapter 5 to 3	180-947
Terminator 3-pin	516-150
Terminator 5-pin	516-152

Swisson X-MT DMX Measurement Tool

Swisson's X-MT is a feature-rich tool, allowing the user easy and fast testing capabilities of DMX signal, the ability to record and replay of complete lighting scenes, edit and send DMX signal, and do basic DMX cable checks.

Swisson	SWI-XMT-100

Swisson X-SP DMX Opto Splitter Program

Designed for clear and clean amplification and isolation of DMX signal, the Swisson DMX splitters are available in a wide variety of configuration for 3 and 5 pin control cable, offer complete optical isolation of signal, feature a built-in switchable terminator, and are available as desk top or rack mount units. LED signal display makes it easy to spot signal disruption.

5-way 3 pin Out	SWI-XSP-15B-3
5-way 5 pin Out	SWI-XSP-15B-5

Swisson X-RC 100 DMX Recorder

Swisson's X-RC 100 DMX Recorder offers exact 100% recording and playback of complex lighting movements and sequences. All shapes, such as circles and loops will replay exactly as programmed. Four different DMX sequences can be selected through memory buttons. Sequences can be programmed from any lighting console and played back at the touch of a button. Use the X-RC as a back-up to your lighting console or a stand-alone device. The X-RC operates using DMX or any of six external contacts.

Swisson	SWI-XRC-100

Electrical Connectors

Combine our quality connectors with unfinished cable to manufacture your own power distribution cable.

Add-a-Taps, PBG 16 guage

White Female	183-200
Brown Female	183-203

Plug Safety Grips, PBG

White Male	183-212
Brown Male	183-215

PBG Connectors

15 Amp Male	183-069
15 Amp Female	183-072

SPG Connectors

20 Amp Male	182-700
20 Amp Female	182-703
60 Amp Male	182-720
60 Amp Female	182-723
60 Amp Phenolic Male	182-411
60 Amp Phenolic Female	182-414
60A Phenolic Fused Male	182-418
60A Phenolic Fused Female	182-419
100 Amp Male	182-730
100 Amp Female	182-732
100 Amp Phenolic Male	182-415
100 Amp Phenolic Female	182-416
100A Phenolic Fused Male	182-421
100A Phenolic Fused Female	182-422

SPG Panel Mounts

20 Amp Male	182-710
20 Amp Female	182-713
60 Amp Male	182-725
60 Amp Female	182-727
100 Amp Male	182-735
100 Amp Female	182-737

Twistlock Connectors

L5-15 Male	182-913
L5-15 Female	182-914
L5-20 Male	182-915
L5-20 Female	182-918

Rosco Adapters

Male SPG to Female PBG	180-951
Female SPG to Male PBG	180-954
Male SPG to Female TLG	180-957
Female SPG to Male TLG	180-960

Multi-Pin Connectors

A 19-pin multi-conductor connector used to reduce number of cables required on any production. They allow you to have up to six 15 Amp or 20 Amp circuits through just one cable.

Male Cable Mount	182-100
Female Cable Mount	182-106
Male Panel Mount	182-103
Female Panel Mount	182-109

Multi-Pin Connectors

These Socapex compatible 19-pin connectors offer many improvements over others: longer life, machined locking rings that resist bending and breaking, insulators resistant to cracking and moving. Special panel mount units with pre-soldered leads also available.

Male Cable Mount	182-200
Female Cable Mount	182-206
Male Panel Mount	182-203
Female Panel Mount	182-209
Female Break-in	182-212
Male Break-out	182-218

Paralleling "Tee" (male-male-female)

Black	184-900
Red	184-903
Blue	184-906
Green	184-909
White	184-912

Tapping "Tee" (male-female-female)

Black	184-915
Red	184-918
Blue	184-921
Green	184-924
White	184-927

Cam-Lok E1016 Connectors

For cable size #2-4/0, 600 Volt, rated up to 400 Amp continuous, 550 Amp intermittent. Double set-screw models only. UL listed.

#2-2/0 Cam-Lok Connectors

Male Cam-Lok Contact	184-100
Male Black Insulator	184-106
Male Red Insulator	184-112
Male Blue Insulator	184-130
Male Green Insulator	184-118
Male White Insulator	184-124
Female Cam-Lok Contact	184-103
Female Black Insulator	184-109
Female Red Insulator	184-115
Female Blue Insulator	184-133
Female Green Insulator	184-121
Female White Insulator	184-127

2/0-4/0 Cam-Lok Connectors

Male Cam-Lok Contact	184-400
Male Black Insulator	184-406
Male Red Insulator	184-412
Male Blue Insulator	184-430
Male Green Insulator	184-418
Male White Insulator	184-424
Female Cam-Lok Contact	184-403
Female Black Insulator	184-409
Female Red Insulator	184-415
Female Blue Insulator	184-433
Female Green Insulator	184-421
Female White Insulator	184-427

Portable and Hookup Cable

Portable and Hookup Cable is used for entertainment industry activities such as stage lighting, theaters, concerts, television, and motion pictures, for permanent or temporary electrical power supply applications.

Zip Cord 18/2

Insulated with PVC 60° centigrade, 300 Volt jacket. Priced per foot.

Black 18/2 7 Amp	180-025
White 18/2 7 Amp	180-020

Raw SOW Cable

Temperature range is minus 40° centigrade to 90° centigrade. Suitable for power supply applications to 600 Volts. Priced per foot.

16/3 10 Amp Cable	180-400
14/3 15 Amp Cable	180-405
12/3 5 Amp Cable	180-420
10/3 30 Amp Cable	180-425
6/3 55 Amp Cable UL Listed	180-035
4/3 70 Amp Cable UL Listed	180-040
2/3 95 Amp Cable UL Listed	180-045

Raw #2 - #6 Cable

Meets NEC Code 520-530 (but not accepted as a temporary electrical service cable in some states). Temperature range is minus 50° to 105° centigrade. Suitable for power to 600 Volts. Priced per foot.

#6 105 Amp Cable	180-600
#4 140 Amp Cable	180-605
#2 190 Amp Cable	180-610

Raw Feeder Cable

Temperature range is minus 40° centigrade to 90° centigrade. Suitable for power supply applications to 2,000 Volts. Priced per foot.

2/0 300 Amp Cable	180-710
4/0 405 Amp Cable	180-715

Stage Distribution Cable

Our fabricated extension cords emphasize quality construction, durability and performance. The heavy-duty connectors are water resistant, unbreakable, and will not pull off.

15 Amp PBG Cable

90° centigrade, 600 Volt, 15 Amp black cables.

25' PBG 14/3 15 Amp	181-215
50' PBG 14/3 15 Amp	181-220
100' PBG 14/3 15 Amp	181-225

20 Amp L5-20 Twistlock Cable

90° centigrade, 600 Volt, 20 Amp black cables.

25' TLG 12/3 20 Amp	181-315
50' TLG 12/3 20 Amp	181-320
100' TLG 12/3 20 Amp	181-330

20 Amp SPG Cable

90° centigrade, 600 Volt, 20 Amp black cables.

25' SPG 12/3 20 Amp	181-300
50' SPG 12/3 20 Amp	181-305
100' SPG 12/3 20 Amp	181-310

60 Amp SPG Cable

90° centigrade, 600 Volt, 60 Amp black cables.

25' SPG 6/3 60 Amp	181-335
50' SPG 6/3 60 Amp	181-340
100' SPG 6/3 60 Amp	181-345

100 Amp SPG Cable

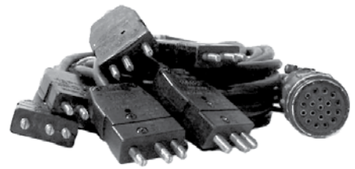
90° centigrade, 600 Volt, 100 Amp black cables.

25' SPG 2/3 100 Amp	181-350
50' SPG 2/3 100 Amp	181-355
100' SPG 2/3 100 Amp	181-360

Multi Cable, 12/14

Our six-circuit multi extension cables are 12 gauge, 14 conductor (12/14), 90° centigrade, 600 Volt, 20 Amp black cable terminated to 19-pin connectors. UL Listed.

25' 12/14 6-cir 20 Amp	181-401
50' 12/14 6-cir 20 Amp	181-406
100' 12/14 6-cir 20 Amp	181-416



Break-outs, 12/14

Overall length is 6'.

SPG	181-451
L5-20	181-456
PBG	181-461

Break-ins, 12/14

Overall length is 6'.

SPG/Bates	181-473
TLG/Twistlock	181-475
PBG/U-Ground	181-470

Multi Cable Two-fer, 12/14

Overall length is 6'.

2-way Multi Splice	181-600

Cam-Lok Feeder Cable

Cam-Lok E1016 connectors are now the preferred high amperage connection for the hookup of dimmer packs and racks, distribution boards and generators. They are easy to connect and they lock together in a watertight fit. Cam-Lok E1016 connectors are rated at 315 Amps continuous, or 500 Amps intermittent.

Cam-Lok connectors may be purchased in green, white, red, blue, or black. Black Entertainment Cable, 105˚centigrade, 600 Volt, is used to construct the following cables:

#2 Cam-Lok Feeder 190 Amp

25' #2 Cam-Lok 185-100
50' #2 Cam-Lok 185-110
100' #2 Cam-Lok 185-120

#1 Cam-Lok Feeder 220 Amp

25' #1 Cam-Lok 185-200
50' #1 Cam-Lok 185-210
100' #1 Cam-Lok 185-220

#1/0 Cam-Lok Feeder 260 Amp

25' #1/0 Cam-Lok 185-300
50' #1/0 Cam-Lok 185-310
100' #1/0 Cam-Lok 185-320

#2/0 Cam-Lok Feeder 300 Amp

25' #2/0 Cam-Lok 185-400
50' #2/0 Cam-Lok 185-410
100' #2/0 Cam-Lok 185-420

#4/0 Cam-Lok Feeder 400 Amp

25' #4/0 Cam-Lok 185-500
50' #4/0 Cam-Lok 185-510
100' #4/0 Cam-Lok 185-520

"Y" Splices or Two-fers

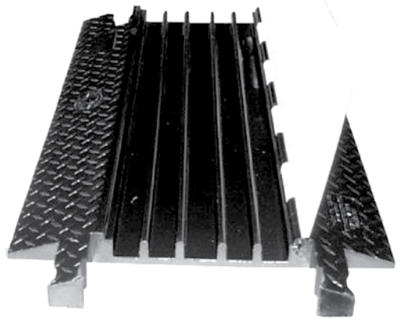
Our Two-fers are constructed of three conductor, hard usage, 90˚ centigrade, 600 Volt, 20 Amp black cable, molded together at the center with the ends consisting of one male connector to two females. 24" overall length.

Bare End (cable only) 180-900
SPG/Bates 20 Amp 180-919
TLG/Twistlock 20 Amp 180-915
PBG/U-Ground 15 Amp 180-920

Fused Splice 60 Amp to Three 20 Amp

This fused splice is used for stage and location electrical distribution for change in wire size protection.

60 Amp SPG Male to 3 20 Amp Fused Female SPG/Bates Receptacles 181-700
60 Amp PBG Male to 3 20 Amp Fused Female SPG/Bates Receptacles 181-710



Cable Crossovers

Easy to set-up, easy to carry and easy to store. It's a one person job that provides total cable protection. The innovative 45˚ corner pieces and interlocking connectors of the Peterson Yellow Jacket Protection System™ allows for almost any configuration. Regardless of their configuration, Yellow Jacket lids will stay open for maximum cable laying convenience. One, three, four and five cable slots are available and all have interlocking connectors for extra stability. The lid's improved "Hiper-Hinge" ensures long wear under heavy-duty use. High visibility yellow end boots complete the system and add an extra measure of safety. Most sections weigh less than a tool box and come with a recessed safety handle, making them easy to carry. When stacked on the edge, each section requires less than 3" of space. Yellow Jacket Cable Protectors are consistent with OSHA guidelines.

Cable Crossovers

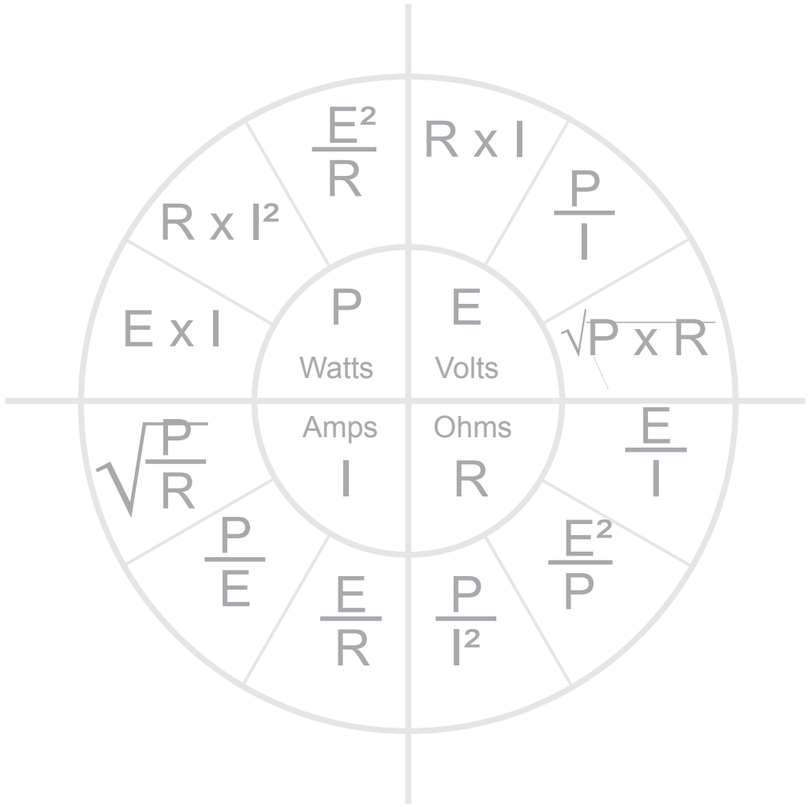
3' Cable Protector 181-015
Female End 181-020
Male End 181-025
45˚ Turn 181-025

Rubber Matting

Corrugated black rubber matting 1/8" thick. Often used to cover cable.

Rubber Matting

24" Wide x 75 linear feet 355-494
48" Wide x 75 linear feet 355-500



Ohm's Law

The rate of the flow of the current is equal to electromotive force divided by resistance. The basic Ohm's law formulas are:
I = E/R R=E/I E=I x R E= Electromotive force and is measured in Volts. Voltage is the difference in electrical potential between two points in a circuit. It's the push or pressure behind current flow through a circuit.
R=Resistance which is measured in Ohms determines how much current will flow through a component. Resistors are used to control voltage and current levels. A very high resistance allows a small amount of current to flow. A very low resistance allows a large amount of current to flow.
I=Intensity of Current which is measured in Amperes or Amps is what flows on a wire or conductor like water flowing down a river. Current flows from points of high voltage to points of low voltage on the surface of a conductor.
P=Power and is measured in Watts. Power is the amount of current times the voltage level at a given point.

To use the pie chart: Find the value that you need to calculate in the center of the chart, then choose a formula from that quadrant that uses the values you know.

100 Amp Feed Thru "ELS Lunch Box"

Small, compact and lightweight, the ELS Lunch Box is equipped with a 100 Amp SPG/Bates input and a 100 Amp throughput. It also includes five 20 Amp hospital grade duplex receptacles with circuitbreaker/switch and a pilot light. Featuring anodized aluminum construction, the Lunch Box hinges open for easy access to the inside components. Please specify a hinged handle or a mounted stationary yoke that is ready for hanging by c-clamp.

ELS Lunch Box 600-200

600 Amp Feed Thru Distro Panel

Constructed with the same high quality materials as the 1200 Amp Feed Thru, this unit has six 100 Amp/120 Volt SPG outputs and two 20 Amp duplex receptacles.
Price includes a one-year warranty.

600 Amp Feed Thru 600-640

1200 Amp Feed Thru Distro Panel

Heavy-duty aluminum construction makes up this rugged, high-grade distro panel. The unit has a very compact design and a small footprint. It consists of six 100 Amp/120 Volt SPG/Bates outputs, three 100 Amp/220 Volt SPG/Bates outputs, and two 20 Amp duplex receptacles, all with circuit breakers and pilot lights. Price includes a one-year warranty.

1200 Amp Feed Thru 600-220

CTI Aquafog 3300
Dry Ice Fogger

CTI Aquafog 3300 Dry Ice Fog Machine

A new concept in dry ice fog, this water-based system is lightweight, portable and durable allowing you to create large amounts of billowing fog. The heart of the Aquafog 3300 is its custom designed molded plastic tank. Plastic is both lightweight and corrosion resistant, and many of the plumbing and electrical fittings use pressure seals to ensure extended leakproof use. The large lid makes it easy to load the ice into the machine. A powerful stainless steel pump brings heated water from the tank up to the dry ice. A 6" fan pressurizes the tank and sends the fog out to the stage.

Aquafog 3300 plugs into wall outlets, so there's no need for 220 Volts, and all electrical components are conveniently located behind the electrical panel. Circuit breakers control the dual 1,650 Watt heating elements, fan and pump. Indicator lights show the status of the water temperature and heating elements at a glance. A low water level cutout switch assures that the heaters will not operate if the water is low. The sophisticated adjustable water temperature circuit maintains a range of 100Ð to 160Ð, even through long rehearsals. Convenient 4-plug system allows for easy remote control, and large 8" rear wheels and 3.5" front swivel casters make moving a breeze. Water capacity of 28 gallons.

Aquafog 3300	CTI-3300

Reel EFX DF-50
Diffusion Fogger

Reel EFX DF-50 Diffusion Fogger

Create special lighting effects with a simple and easy to operate diffusion fogger for dramatic lighting in film, video and dance clubs. Operated manually or by remote, this simple, easy to use fogger is clean, harmless, odorless, and can't be beat for dependability. This unit is environmentally safe as it has no chlorofluorocarbons and has a long lasting hang time of 3+ hours in an enclosed area. The unit has been tested by CAL/OSHA, approved by the FDA, and one tablespoon of diffusion fluid will fog for 60 minutes.

Diffused fog adds dimension to your lighting by filling the air with minute particles that are fine and clean, and brings backgrounds to life with evenly distributed atmospheric haze. Using the DF-50 can eliminate dangerous burning or hot chemicals, greasy, messy or oily residue, propellants or manual pumping (the DF-50 uses self contained compressed air), or harmful odors. Other features include instant on with no warm-up necessary, fluid capacity of two liters, run time of 35+ hours and a power rating of 100-125 Volts or 200-240 Volts.

DF-50 Diffusion Fogger	REF-DF50
Fluid (Quart)	REF-DF50-FQ
Fluid (Gallon)	REF-DF50-FG

Le Maitre G300
Fog Machine/Hazer

Le Maitre G300 Fog Machine/Hazer

The G300 is the most technically advanced fog machine available. Challenging the limitations of current technology, Le Maitre takes fog machines several steps further. By simply changing the output mode and the fluid in the machine, it safely doubles as a water based hazer, a feature never before available on a standard fog machine. An optional DMX Interface Remote is also available.

G300 Fog Machine	LM-CLF-277-5
Fluid (2 Liter)	LM-CFF-2902
Fluid (4 Liter)	LM-CFF-2901

Le Maitre LSX Low Smoke Converter

The LSX from Le Maitre converts the fog/smoke output of the G300 into a low-lying cloud, similar to the effect achieved with dry ice fog machines. The best results are obtained when using Le Maitre's low lying molecular smoke fluid.

LSX	LM-CLF-291-0
Low Molecular Fluid (4 liter)	LM-CFF-2901

Special Effects
Fog+Snow

Rosco Delta 3000 Fog Machine

The heat exchanger of the Delta 3000, the heart of any fog machine, is made of cast aluminum housing a robust 1500 Watt heater element. The design of the heat exchanger, along with a unique electronic thermostatic control, is the key to creating unparalleled volumes of smoke - volumes large enough to fill most stages in less than a minute.
The other major innovation of the Delta 3000 is the harnessing of the Delta Technology to control the fog effect. This state-of-the-art electronics design allows designers and technicians to use fog and smoke the way they use light or sound: to have the effect start on cue at the correct level and end on cue. The Delta 3000 makes that possible through the choice of three different remote control devices:

The **Digital DMX Remote** is the most sophisticated of these devices. The timers are "real time" timers which can be set in exact one-second increments from one second to 10 minutes. An LCD display on the device will display the operational menu in any of six languages (English, Spanish, French, German, Portuguese or Italian). The LCD display also works with a rotary encoder to make setting the DMX address easy and precise. It also provides the user with "error" messages when the machine is running low on fluid or cannot find a DMX signal.
The **Analog DMX Remote** offers volume control, DMX control and on/off sequencers. The interface is analog using hardy switches and knobs to operate the machine. The DMX address is easily set from three rotary potentiometers, rather than the cumbersome dip switches commonly used. The unit has a red LED to indicate that the Delta 3000 is running low on fluid.
The **Solo DMX Remote** is designed for those situations where the fog machine will always be cued and operated from a DMX light board. It has the same three rotary potentiometers that the Analog DMX Remote has for setting the DMX address. It also has the red LED for signaling that the machine is running low on fluid, plus other LEDs to let the user know if the machine is heating or ready for operation.

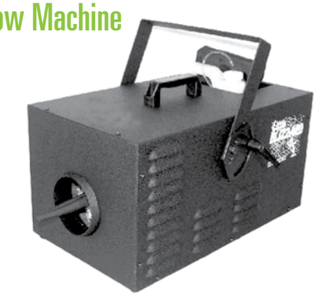
Delta 3000 Fog Machine	ROS-200-130-010-20
Digital DMX Remote	ROS-200-130-0DDMX
Analog DMX Remote	ROS-200-130-0ADMX
Solo DMX Remote	ROS-200-130-0SDMX
Stage+Studio Fog Fluid (4 liter)	143-215
Stage+Studio Fog Fluid (1 liter)	143-212

Reel EFX Effects Fans

The RE II Turbo Fan uses the same durable motor as the first RE-Fan with adjustable speed control and 1-touch blast button. Its versatile mounting yoke rests on any surface and also attaches to baby or junior receivers. New standard Turbo Blade upgrade increases fan output and efficiency.
The RE Fan III has twice the blade area of RE II and three times the horsepower. Quiet at low speeds, it features glass filled front and back grill, a unique reversed air flow design, and its motor mounts provide increased air straightening. Optional DMX remote control also available.

RE Effects Fans	
RE II Turbo Fan	REF-RE2
RE Fan III	REF-RE3

Little Blizzard Snow Machine



The Little Blizzard Snow Machine produces non-toxic foam flakes which evaporate upon impact, creating the perfect effect for theater or audience participation. An adjustable blower determines how far snow travels, and output varies from flurries to a blizzard. The flake size adjustment creates 1/16" to 1/2" flakes. A gallon of fluid lasts 20 to 50 minutes. Includes XLR cable connector and 25' remote.

Little Blizzard Snow Machine (SP-DMX)	CIT-100-242

Snowflake Fluid (per Gallon):	
Extra Dry Fluid	CIT-150-160
Dry Fluid	CIT-150-215

ELS carries a wide cariety of special effects.
Call your representative for more information.

Wybron CXI Color Fusion

Wybron's CXI Color Fusion is the new state-of-the-art in color changing. It uses just two color scrolls with graduated frames of cyan, yellow, and magenta to create a color palette far beyond that of any other color changer. Simply choose the color you want from the Color Menu, select the corresponding DMX level and the two CXI scrolls position to mix that color. Combine full and partial frame mixing for a virtually infinite spectrum. To use the CXI with your current Coloram Power Supplies, use Version 2.0 or higher firmware.

CXI Color Fusion	
4" Color Mixer	WYB-456-0
7.5" Color Mixer	WYB-720-0
12" Color Mixer	WYB-122-10
3-way Power Supply	WYB-190-60
6-way Power Supply	WYB-190-12
12-way Power Supply	WYB-190-00

Wybron Coloram II

Wybron's Coloram II is a color changing scroller light years ahead of its competition, offering more colors than any other (32!), and it calibrates itself to whatever length you install. Its advanced motion control system provides smooth gelstring movement, at normal speed for extra gelstring life, or at a low speed for whisper quiet operation. Features individual DMX addressing and easy daisy chaining.

Coloram II	
4" Scroller	WYB-452-0
7.5" Scroller	WYB-711-0
10" Scroller	WYB-101-00
15" Scroller	WYB-150-10
8-Light Fixtures	WYB-160-80
Large Format Fixtures	WYB-160-90
7.5" Aquaram Outdoor Unit	WYB-708-0
6-way Power Supply	WYB-190-60
12-way Power Supply	WYB-190-12
24-way Power Supply	WYB-190-00

See page 45 for Color Changer cable.

Wybron Forerunner

The latest in a long line of Wybron scrolling color changers, Forerunner is the most affordable unit available. The 7" unit fits Par 64s and most 6" and 8" ellipsoidals; use the 4" unit for Source Four and compact ellipsoidals. It offers 16-frame color changing and autoloading from the front of the unit, with daisy chaining and individual DMX addressing for ease of use. Separate 16-head power supply has twice the capacity of competitor's unit for only a fraction more in price.

Forerunner	
4" Scroller	WYB-454-0
7" Scroller	WYB-714-0
16-way Power Supply	WYB-715-0

Altman UV-705 Floodlight

With compact, rugged construction and extremely quiet operation, this blacklight has an integrated ballast, ignitor, and wire mesh safety screen, plus an automatic safety cutoff switch. Altman's UV-705 utilizes a UV-A filter lens and provides lamp access through the lens door with a wide to very wide field adjustment. Yoke is supplied standard with dual positive locking dogs. This fixture is ETL and CETL listed for 400 Watts.

UV-705 Blacklight Flood	AL-UV7-05
400 Watt UV Lamp, Flood	902-365

Fluorescent Blacklights

Blacklights turn your room or dance floor into a pool of purple light, which is highlighted by glowing pieces of clothing or other items that reflect and appear fluorescent. Includes lamp.

Blacklights	
4' Altman Fixture	AL-701
2' AmDJ Fixture	AMD-BLACK-24-BLB
48" AmDJ Fixture	AMD-BLACK-48-BLB

Martin EGO Series

Ego is a new series of 250 Watt DJ effect lights from Martin Professional set to revolutionize effect lighting in the DJ segment thanks to never before seen flower effects and extremely sharp, top quality projection optics. A very cool, composite design houses a powerful 250-watt, 500-hour halogen lamp for superlative projection optics, and a precise focus adjustment produces super crisp projections. Radically new gobo designs and innovative image effects make the Ego series truly unique.

One-of-a-kind variable behavior tuning allows DJs to adjust how aggressively the effect reacts to music in trig mode – relaxed, intermediate or quick. Ego operates in either auto or music trig mode. A convenient handle and lens protection ring make for easy transport and handling. A remote control is also available.

Ego 01

Ego 01 is a razor sharp flower effect featuring a host of new and original gobo designs that add a touch of individuality to any light show. Gobo and rotation speed are easily controllable.

Ego 01	MP-904-280-00
ELC 250W - 24V 3450°K (50hr)	904-410

American DJ Vertigo

The Vertigo features a 300 Watt lamp which rotates to the beat of the music picked up by its internal microphone controller. The effect generated by this fixture is that of 30 crisscrossing beams of multicolored light. Great as a centerpiece unit in low ceiling venues, it has a separate mounting bracket and is fan cooled. Includes PBG/U-Ground power cord.

Vertigo	134-366
DRA 300W - 120V 3300°K (300hr)	940-110

For more information on lighting effects from American DJ or Martin, call your ELS representative.

Martin Mania EF1

The Mania EF1 is the first effect light in Martin's new series of high quality yet affordable DJ lights. The series will encompass effect lights, color changers, strobes, deco effects, scanners, promotional lights, smoke machines and more. Featuring a clean yet stylish design, Mania EF1 is a dynamic flower effect housing 6 colored patterns useful as revolving dance floor motifs, funky wall projections or soaring mid-air effects. With no duty cycle to worry about, the Mania EF1 remains comfortably cool hour after hour, meaning it can run uninterrupted, all night long.

Mania EF1	MP-904-300-03
EFP 100W - 12V 3350°K (300hr)	904-410

Martin Mania DC1 and DC2

The first two deco effects in the new Mania series are versatile tools useful for setting the mood in any club, concert or party. The Mania DC1 projects decorative liquid aqua decoration effects, while the DC2 projects blazing flame effects to burn an atmosphere into the night. Neither fixture is limited by duty cycles meaning there is no cool down period so they can run all night. They include a variable focus and a sound activation option which lets Mania follow the beat of the music.

Mania DC1	MP-904-300-11
Mania DC2	MP-904-300-21
EFP 100W - 12V 3350°K (300hr)	904-410

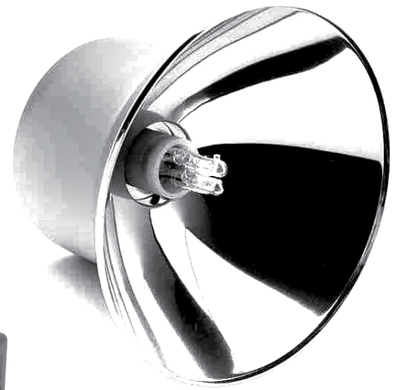
American DJ Avenger 2

Lightweight, so that it is easy to mount or transport, yet bright and dynamic to produce exciting effects. That's the appeal of the Avenger 2. Two 300 Watt lamps project light through ten multicolored lenses. The result is 20 brightly colored light beams flashing across the room to the beat of music picked up by the Avenger's internal microphone. The Avenger 2 is fan cooled, and comes with a hanging bracket and a PBG/U-Ground power cord.

Avenger 2	134-374
DRA 300W - 120V 3300°K (300hr)	940-110

High End AF-1000 Strobe

Martin Atomic 3K



Diversitronics Strobe Cannon

High End AF-1000 Strobes

The AF-1000 is not just an ultra high power flash system, it can also be used as a continuous illumination source, and as a pyrotechnic device capable of lightning simulation. Any number of fixtures may easily be triggered simultaneously. AF-1000 is fully DMX-512 compatible, allowing the fixture to be run from any DMX compatible controller. It may also be controlled by either the Dataflash LCD or Mini Controllers from Lightwave Research.

This fixture emits up to 25,000 Joules continuous flashes, duty cycle microprocessor regulated, at a color temperature of 5600Ð Kelvin. The hard glass xenon S01 flash tube gives two million flashes of 30 Joules in the Standard setting, while the H01 lamp gives four million flashes at 60 Joules in the Special Effects setting and eight million flashes at 30 Joules per flash in the Architectural mode. Lamp not included.

AF-1000 Strobe	
Non-weatherized (no lamp)	HES-210-100-05
Weatherized (no lamp)	HES-210-100-04
Axial Reflector	HES-210-400-01
Strobe Lamps:	
S01 Lamp Standard Intensity	HES-550-300-38
H01 Lamp High Intensity	HES-550-300-42

Martin Atomic 3K DMX

The Atomic 3000 DMX is a powerful, high-impact strobe with 3000 watts of unlimited energy that supplies an explosive pulse of energy to clubs, tours and mobile DJ's of any size.

Atomic 3K	MP-904-241-00

Diversitronics Super Strobes

These durable strobes feature high-powered 50-watts-per-second or 150-watts-per-second lamps. The controller allows for adjustment of strobe intensity and flash speed. Utilizes a 4-pin XLR control cable and comes standard with a power cord and PBG/U-Ground connector.

Super Strobe	
50W 50S-2 Strobe	DIV-505-2

RC-50 Remote	DIV-RC50

Diversitronics Strobe Cannon

Concentrating bursts of light into specific areas of illumination, these high-intensity modules are designed to fit into a Par 64 or Par 56 can. The Strobe Cannons are high-performance, DMX-512 controllable, professional xenon strobes.

Strobe Cannons	
DMX for Par 64	DIV-SCM-64Q-HDM-X
DMX for Par 56	DIV-SCM-56Q-HDM-X

Diversitronics Dome Cannon

Unmatched in output, duty cycle and control flexibility, the Dome Cannon is a high performance direct DMX control xenon strobe combining concentrated beam flashing with the brilliance of lamp line of sight. Perfect for nightclub or concerts, DMX control allows up to 256 Dome Cannons to be run simultaneously with individual rate and intensity, at an output of 150,000 candela.

Dome Cannon	DIV-DK-2000

Please call an ELS representative for information about our full range of strobe lighting possibilities.

Glass Mirror Balls

Glass Mirror Balls

Whether suspended above a ballroom or nightclub dance floor, the mirror ball has been the traditional centerpiece effect used when lighting a festive gathering. Available in a variety of sizes, the mirror ball is an inexpensive way to brighten up your event. Use with pinspots for desired effect.

Mirror Balls	
8" Mirror Ball	133-000
12" Mirror Ball	133-010
16" Mirror Ball	133-060
20" Mirror Ball	133-230

Mirror Ball Motors

12" Motor	133-280

Rotates mirror ball 12" and under at 3 rotations per minute. Includes PBG/U-ground power cord.

20" Motor	133-290

A heavy-duty motor for mirror balls 12" to 20" which rotates at 1 rpm. Includes PBG/U-Ground power cord.

Battery Operated Motor	133-300

Utilizes a D-cell battery for mirror balls 8" and under.

Pinspot

Pinspots

Pinspots have a variety of uses in entertainment lighting. Utilizing Par 36 or 46 lamps, these small, lightweight fixtures provide bright and focused beams of light. All pinspots include a yoke and a PBG/U-Ground cable lead. UL listed.

Pinspots	
Par 36 (Black)	120-009
Par 46 (Black)	120-011
Lamps:	
30W Par 36 VNSP	904-010
200W Par 46 NSP	934-010

American DJ Beacon Domes

A standard lighting effect on dance floors everywhere, these rotating "police" beacons are available in a variety of sizes and colors.

8" Beacon with 75W Lamp	
Red	130-208
Blue	130-206
Green	130-204
Yellow	130-202
6" Beacon with 25W Lamp	
Red	130-200
Blue	130-210
Green	130-215
Yellow	130-220
Lamps:	
75W 120V	906-340
25W 120V	915-060

American DJ Rope Lights

American DJ Rope Lights

Rope Lights create unique lighting effects without the hassle of stringer lights. Wired in a 4-circuit series on 31/3" centers, these standard-duty rope lights are highly flexible and feature weather resistant 5-pin connectors which allow for runs of up to 240' with the RL-11 (40 lamp) unit, and up to 320' with the RL-160 (60 lamp) unit. Specify color: Clear, Red, Blue, Yellow, Green, or Multi-Color.

Rope Lights	
16' RL-160 Rope Light (specify color)	POA
Rope Light Y-Adapter	130-479
Adapter Cord 110 VAC	130-481

RL-10 Rope Light Controller

This larger capacity controller works with RL-11 and RL-160 rope lights to run up to four 16' or six 12' rope lights. RL-10 features a chase speed control dial and will chase in a four channel sequence; PBG/U-Ground.

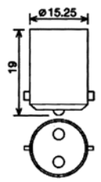
RL-10 Rope Light Control	130-486

RL-101 Rope Light Controller

This deluxe model controls the chase speed and direction for both RL-11 and RL-160 type rope lights. RL-101's internal mic chases to the music beat to control ten 16' ropes or fourteen 12' ropes; PBG/U-Ground.

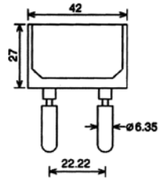
RL-101 Rope Light Control	130-489

DOUBLE CONTACT BAYONET BA15d

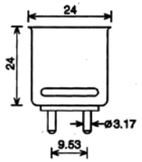


RECESSED CONTACT R7s-12/R7s-18

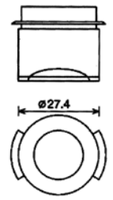
MEDIUM BI-POST G22



MEDIUM 2-PIN G9.5



MEDIUM PREFOCUS P28S

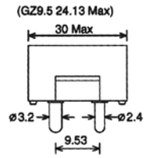


Lamp Data, Alphabetical by ANSI Code

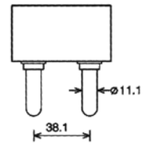
ANSI Code	Lamp Description	Lamp Wattage	Approx Kelvin Color Temp	Average Lamp Life	Base Type	Lamp Voltage	Special Notes	ELS Item Number
BTL	Q500T6/CL/P	500W	3,000ÐK	500 hours	P28s	120V	CL	950-080
BTN	Q750T7/CL/2P	750W	3,050ÐK	500 hours	P28s	120V	CL	960-080
BTR	Q1000T7/4CL/2P	1kW	3,200ÐK	250 hours	P28s	120V	CL	963-320
BVT	Q1000T7/CL/MP	1kW	3,050ÐK	500 hours	P40s	120V	CL	963-480
BVV	Q1000T7/4CL/MP	1kW	3,200ÐK	200 hours	P40s	120V	CL	963-500
BVW	Q2000T10/4CL/MP	2kW	3,200KÐ	350 hours	P40s	120V	CL	975-020
BWA	Q2000/4CL/BP	2kW	3,200ÐK	350 hours	G38	120V	CL	975-030
CXZ	Q1500T10/4CL	1.5kW	3,200ÐK	400 hours	G38	120V	CL	973-050
CYX	Q2000T10/4CL	2kW	3,200ÐK	350 hours	G38	120V	CL	975-040
DRA	Q300T4	300W	3,300ÐK	300 hours	G6.35	120V	SE/CL	940-110
DWE	Q650PAR36/1	650W	3,200ÐK	100 hours	Screw Term	120V	MFL	958-110
DXW	Q1000T5/4CL	1kW	3,200ÐK	150 hours	RSC	120V	CL	963-000
DYG	Q250/4CL/2PP	250W	3,400ÐK	15 hours	GY9.5	30V	CL	904-610
DYS	DYS/BHC/DYV	600W	3,200ÐK	75 hours	GY9.5	120V	CL	956-000
EGF	Q750/4CL/P	750W	3,200ÐK	500 hours	P28s	120V	CL	960-060
EGK	Q1000/4/P	1kW	3,200ÐK	300 hours	P28s	120V	IF	963-300
EGN	Q500T8	500W	3,200ÐK	150 hours	G22	120V	CL	950-160
EGR	Q750T7/4CL	750W	3,200ÐK	200 hours	G22	120V	CL	960-110
EGT	Q1000T7/4CL	1kW	3,200ÐK	250 hours	G22	120V	CL	963-420
EHD	Q500CL/TP	500W	2,950ÐK	2,000 hours	G9.5	120V	CL	950-070
EHF	Q750/4CL	750W	3,200ÐK	500 hours	G9.5	120V	CL	960-040
EHG	Q750/CL/TP	750W	3,000ÐK	2,000 hours	G9.5	120V	CL	960-030
EHZ	Q300T3	300W	2,950ÐK	2,000 hours	RSC	120V	IF	940-000
EJG	Q750T3/4CL	750W	3,200ÐK	400 hours	RSC	120V	CL	960-010
EKB	Q420/4CL/2PP	420W	3,200ÐK	75 hours	GX9.5	120V	CL	945-000
EKD	Q650/3CL/2PP	650W	3,400ÐK	25 hours	GX9.5	120V	CL	958-000
ELC	250/MR16/24V	250W	3,400ÐK	50 hours	GX5.3	24V	CL	904-410
EMD	Q750T3/4	750W	3,200ÐK	400 hours	RSC	120V	IF	960-020
ESD	150W/MR16/120V	150W	3,350ÐK	12 hours	GY5.3	120V	CL	930-050
ESP	Q150CL/DC/2V	150W	2,850ÐK	1,000 hours	BA15d	120V	CL	930-020
ESR	Q100CL/DC/2V	100W	2,850ÐK	750 hours	BA15d	120V	CL	924-030
ESX	Q20MR16C/CG/15Ð	20W	2,900ÐK	5,000 hours	GU5.3	12V	NSP	904-250
EXT	Q50MR16C/CG15Ð	50W	3,050ÐK	6,000 hours	GU5.3	12V	NSP	904-290
EYC	Q75MR16C/CG40Ð	75W	3,050ÐK	4,000 hours	GU5.3	12V	FL	904-320

Expendables Lamps

MEDIUM PREFOCUS 2-PIN GY9.5(GZ9.5)



MOGUL BI-POST G38



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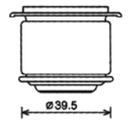
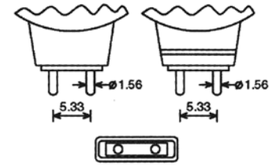


GLASS 2-PIN GX5.3/GU5.3



ANSI Code	Lamp Description	Lamp Wattage	Approx Kelvin Color Temp	Average Lamp Life	Base Type	Lamp Voltage	Special Notes	ELS Item Number
EYL	100Q/12V	100W	3,300ÐK	50 hours	GY9.5	12V	CL	902-719
EYT	Q750/CL	750W	3,050ÐK	500 hours	E11	120V	CL	960-000
FAY	Q650PAR36/3D	650W	5,000ÐK	30 hours	Ferrule	120V	SP	958-040
FAD	Q650T4/4CL	650W	3,200ÐK	100 hours	RSC	120V	CL	958-010
FBE	Q650PAR36/5D	650W	5,000ÐK	30 hours	Screw Term	120V	SP	958-120
FBX	Q650T4/4	650W	3,200ÐK	100 hours	RSC	120V	IF	958-020
FCM	Q1000T3/4CL	1kW	3,200ÐK	400 hours	RSC	120V	CL	963-060
FDA	FDA 400W	400W	3,200ÐK	200 hours	RSC	120V	CL	943-010
FDB	Q1500T4/4CL	1.5kW	3,200ÐK	400 hours	RSC	120V	CL	973-000
FDF	Q500T3Q/4CL	500W	3,200ÐK	400 hours	RSC	120V	CL	950-040
FDN	Q500T3/4	500W	3,200ÐK	400 hours	RSC	120V	IF	950-050
FEL	Q1000/4CL	1kW	3,200ÐK	375 hours	G9.5	120V	CL	963-200
FER	Q1000T6/4CL	1kW	3,200ÐK	500 hours	RSC	120V	CL	963-120
FEV	Q200/4CL/DC	200W	3,200ÐK	50 hours	BA15d	120V	CL	934-000
FEY	Q2000T8/4CL	2kW	3,200ÐK	400 hours	RSC	120V	CL	975-000
FFN	Q1000PAR64/1	1kW	3,200ÐK	800 hours	EMEP	120V	VNSP/CL	963-600
FFP	Q1000PAR64/2	1kW	3,200ÐK	800 hours	EMEP	120V	NSP/CL	963-620
FFR	Q1000PAR64/5	1kW	3,200ÐK	800 hours	EMEP	120V	MFL/CL	963-640
FFS	Q1000PAR64/6	1kW	3,200ÐK	800 hours	EMEP	120V	WFL/CL	963-660
FFT	Q1000T3/1CL	1kW	3,200ÐK	400 hours	RSC	120V	CL	963-140
FGT	Q1500T4/4	1.5kW	3,200ÐK	400 hours	RSC	120V	IF	973-010
FHM	Q1000/T3/4	1kW	3,200ÐK	400 hours	RSC	120V	IF	963-080
FKW	Q300T8 (CP81)	300W	3,200ÐK	150 hours	GX9.5	120V	CL	940-428
FLE	360/MR16/82V	360W	3,200ÐK	75 hours	GY9.5	82V	CL	905-620
FLK	Q575T6/4CL	575W	3,200ÐK	300 hours	G9.5	115V	CL	902-505
FRG	Q500T8 (CP82)	500W	3,200ÐK	150 hours	GX9.5	120V	CL	904-525
FRK	Q650T8 (CP89)	650W	3,200ÐK	200 hours	GX9.5	120V	CL	958-090
FTK	500/120	500W	3,200ÐK	100 hours	GY9.5	120V	CL	956-040
GLA	575/115V	575W	3,100ÐK	1,500 hours	G9.5	115V	CL	902-470
GLC	575/115V	575W	3,200ÐK	400 hours	G9.5	115V	CL	902-460
JCD	300/120V	300W	3,200ÐK	75 hours	G9.5	120V	CL	902-721
JCR	100/120V	100W	3,000ÐK	1,500 hours	GY5.3	12V	CL	904-354

Lamp Data, Alphabetical by Lamp Type

Lamp Type	Lamp Description	Lamp Wattage	Approx Kelvin Color Temp	Average Lamp Life	Base Type	Lamp Voltage	Special Notes	ELS Item Number
CDM	CDM 70/T6/830	70W	3,000ÐK	9,000 hours	G12	96V	CL	902-491
CDM	CDM 150/T6/830	150W	3,000ÐK	9,000 hours	G12	96V	CL	902-490
HMI	HMI/MSR 200	200W	5,600ÐK	200 hours	GY9.5	70V	SE	900-000
HMI	HMI/MSR 400	400W	5,600ÐK	650 hours	GX9.5	70V	SE	900-015
HMI	HMI/MSR 575	575W	5,600ÐK	750 hours	GX9.5	95V	SE	900-035
HMI	HMI 575/GS	575W	6,000ÐK	750 hours	SFc10-4	95V	DE	900-025
HMI	HMI 1200/GS	1.2kW	6,000ÐK	750 hours	SFx15.5	100V	DE	900-140
HMI	HMI/UMI 1200/HB	1.2kW	5,600ÐK	750 hours	SFc10-4	100V	DE	900-141
HMI	HMI/MSR 1200	1.2kW	5,600ÐK	800 hours	G22	100V	SE	902-045
HMI	HMI/MSR/HR 1200	1.2kW	5,600ÐK	750 hours	G38	100V	SE	902-455
HMI	HM/MSR/HR 2500	2.5kW	5,600ÐK	500 hours	G38	115V	SE	900-155
HMI	HMI/MSR/HR 4000	4kW	5,600ÐK	500 hours	G38	200V	SE	900-165
HPL	HPL 375/115X	375W	3,050ÐK	2,000 hours	Heat Sink	115V	SE/CL	902-503
HPL	HPL 550/77	550W	3,250ÐK	300 hours	Heat Sink	77V	SE/CL	902-504
HPL	HPL 575/115	575W	3,250ÐK	300 hours	Heat Sink	115V	SE/CL	902-502
HPL	HPL 575/115X	575W	3,050ÐK	2,000 hours	Heat Sink	115V	SE/CL	902-506
HPL	HPL 575/120	575W	3,250ÐK	300 hours	Heat Sink	120V	SE/CL	902-500
HPL	HPL 750/115	750W	3,250ÐK	300 hours	Heat Sink	115V	SE/CL	902-515
HTI	HTI 150/90	150W	5,000ÐK	250 hours	GY9.5	90V	DE	902-605
HTI	HTI 400/24	400W	5,600ÐK	250 hours	FaX1.5	55V	HR	902-600
MSD	MSD/HID 200	200W	5,800ÐK	2,000 hours	GY9.5	70V	SE	902-445
MSD	MSD/HID 200/2	200W	6,600ÐK	3,000 hours	GY9.5	70V	SE	902-440
MSD	MSD/HID 250	250W	6,800ÐK	2,000 hours	GY9.5	90V	SE	902-430
MSD	MSD/HID 250/2	250W	8,100ÐK	2,000 hours	GY9.5	90V	SE	902-435
MSD	MSD/HID 575	575W	5,900ÐK	2,000 hours	GY9.5	95V	SE	902-447
MSD	MSD/HID 700	700W	5,900ÐK	2,000 hours	G22	72V	SE	902-449
MSR	MSR 575/HR	575W	5,600ÐK	750 hours	G22	95V	HR	902-410
MSR	MSR 575/2	575W	6,200ÐK	750 hours	GX9.5	95V	SE	902-420
MSR	MSR 700/2	700W	7,000ÐK	1,000 hours	G22	72V	SE	902-425
MSR	MSR 1200	1.2kW	5,600ÐK	800 hours	G22	100V	SE	902-450
MSR	MSR 2500/HR	2.5kW	5,600ÐK	500 hours	G38	115V	HR	902-475
R30	75R30/FL/65WM	75W	2,700ÐK	2,000 hours	E26	120V	WM/FL	920-010
R30	75R30/SP/65WM	75W	2,700ÐK	2,000 hours	E26	120V	WM/SP	920-020
R40	75R/FL/65WM	75W	2,700ÐK	2,000 hours	E26	120V	WM/SP	920-090
R40	150R/FL/120WM	120W	2,750ÐK	2,000 hours	E26	120V	WM/FL	930-060
R40	300R/FL	300W	2,750ÐK	2,000 hours	E26	120V	FL	940-050
300	300/IF	300W	NR	1,000 hours	E39	120V	IF	940-070
400	400G/FL	400W	2,850ÐK	800 hours	E39	120V	FL	943-030
400	400G/SP	400W	2,950ÐK	200 hours	E39	120V	SP	943-040
500	500/IF	500W	3,050ÐK	1,000 hours	E39	120V	IF	950-210
750	750/IF	750W	3,050ÐK	1,000 hours	E39	120V	IF	960-140
1000	1000/IF	1kW	3,100ÐK	1,000 hours	E39	120V	IF	963-540
PAR36	4405/30/PAR36VNSP	30W	NR	100 hours	Screw Term	12.8V	VNSP	904-200
PAR36	4515/30/PAR36VNSP	30W	NR	100 hours	Screw Term	6.4V	VNSP	904-010

Lamp Data, Alphabetical by Lamp Type (continued)

Lamp Type	Lamp Description	Lamp Wattage	Approx Kelvin Color Temp	Average Lamp Life	Base Type	Lamp Voltage	Special Notes	ELS Item Number
PAR38	75PAR/3FL	75W	2,750ÐK	2,000 hours	MSP	120V	FL	920-100
PAR38	75PAR/3SP	75W	2,750ÐK	2,000 hours	MSP	120V	SP	920-110
PAR46	4535/30/PAR46VNSP	30W	NR	300 hours	Screw Term	6.4V	VNSP	904-020
PAR46	4435/30/PAR46VSNP	30W	NR	300 hours	Screw Term	12.8V	VNSP	904-210
PAR46	200PAR46/3/NSP	200W	2,750ÐK	2,000 hours	MSP	120V	NSP	934-010
PAR46	200PAR46/3/MFL	200W	2,750ÐK	2,000 hours	MSP	120V	MFL	934-020
PAR56	300PAR56NSP	300W	2,750ÐK	2,000 hours	MEP	120V	NSP	940-080
PAR56	300PAR56MFL	300W	2,750ÐK	2,000 hours	MEP	120V	MFL	940-090
PAR56	300PAR56WFL	300W	2,750ÐK	2,000 hours	MEP	120V	WFL	940-100
PAR56	Q500PAR56NSP	500W	2,950ÐK	4,000 hours	MEP	120V	NSP	950-220
PAR56	Q500PAR56MFL	500W	2,950ÐK	4,000 hours	MEP	120V	MFL	950-230
PAR56	Q500PAR56WFL	500W	2,950ÐK	4,000 hours	MEP	120V	WFL	950-240
PAR64	500PAR64/NSP	500W	2,800ÐK	2,000 hours	EMEP	120V	NSP	950-250
PAR64	500PAR64/MFL	500W	2,800ÐK	2,000 hours	EMEP	120V	MFL	950-260
PAR64	500PAR64/WFL	500W	2,800ÐK	2,000 hours	EMEP	120V	WFL	950-270
Xenon	XB01000w/HS OFR	1kW	6,000ÐK	1,500 hours	SFcX 27-8	19V	DC	901-030
Xenon	XB01600w/HS OFR	1.6kW	6,000ÐK	1,500 hours	SFcX 27-8	19V	DC	901-040
Xenon	XB02000w/HS OFR	2kW	6,000ÐK	1,500 hours	SFaX 27-9.5	24V	DC	901-050

Lamp Abbreviation Keys

Lamp Bases

BA15d	Double-Contact Bayonet
BA9s	Single-Contact Bayonet
CPB	Channel Plug
E11	Mini-Can Screw
E17	Intermediate Screw
E26	Medium (Household) Screw
E39	Mogul Screw
EMEP (GX16d)	Extended Mogul End Prong
FaX1.5	Metal Halide Lamp
G13	Medium Bi-Pin
G22	Medium Bi-Post
G38	Mogul Bi-Post
G5.3	Miniature 2-Pin
G6.35	Glass/Ceramic 2-Pin
G9.5	Medium 2-Pin Single Ended
GU5.3	2-Pin
GX5.3	Glass 2-Pin
GX9.5	Medium Pre-Focus 2-Pin
GY5.3	Oval 2-Pin
GY9.5	2-Pin Pre-Focus Single Ended
MEP (GX16d)	Mogal End Prong
MSP	Medium Side Prong
P40s	Mogul Pre-Focus
P28s	Medium Pre-Focus
P30s	Single-Contact Candelabra Pre-Focus

Lamp Bases (continued)

RSC	Recessed Single-Contact
RM2P	Recessed Medium 2-Pin
SFaX 27-9.5	Metal Halide Lamp
SFcX 27-8	Metal Halide Lamp
SFc10-4	Metal Halide Lamp
SFx15.5	Metal Halide Lamp

Lamp Types/Finishes

CL	Clear
DE	Double Ended
H	Halogen
HR	Hot Restrike
IF	Inside Frost
MP	Mogul Prefocus
NR	Not Rated
PH	Photo Flood
SE	Single Ended
WM	Watt Miser

Beam Spreads

FL	Flood
MFL	Medium Flood
SP	Spot
VNSP	Very Narrow Spot
WFL	Wide Flood

Roscolux

Available in 24" x 50' rolls
& 20" x 24" sheets.

001	Light Bastard Amber
002	Bastard Amber
003	Dark Bastard Amber
303	Warm Peach
004	Medium Bastard Amber
304	Pale Apricot
005	Rose Tint
305	Rose Gold
006	No Color Straw
007	Pale Yellow
008	Pale Gold
009	Pale Amber Gold
010	Medium Yellow
310	Daffodil
011	Light Straw
012	Straw
312	Canary
013	Straw Tint
313	Light Relief Yellow
014	Medium Straw
015	Deep Straw
016	Light Amber
316	Gallo Gold
017	Light Flame
317	Apricot
018	Flame
318	Mayan Sun
019	Fire
020	Medium Amber
021	Golden Amber
321	Soft Golden Amber
022	Deep Amber
023	Orange
324	Gypsy Red
024	Scarlet
025	Orange Red
026	Light Red
027	Medium Red
030	Light Salmon Pink
031	Salmon Pink
331	Shell Pink
032	Medium Salmon Pink
332	Cherry Rose
033	No Color Pink
333	Blush Pink
034	Flesh Pink
035	Light Pink
036	Medium Pink
037	Pale Rose Pink
337	True Pink
038	Light Rose
039	Skelton Exotic Sangria
339	Broadway Pink
040	Light Salmon
041	Salmon
042	Deep Salmon
342	Rose Pink
043	Deep Pink
343	Neon Pink
044	Middle Rose
344	Follies Pink
045	Rose
046	Magenta
346	Tropical Magenta
047	Light Rose Purple
347	Belladonna Rose
048	Rose Purple
348	Purple Jazz
049	Medium Purple
349	Fischer Fuchsia
050	Mauve
051	Surprise Pink
351	Lavender Mist
052	Light Lavender
053	Pale Lavender
353	Lilly Lavender
054	Special Lavender
055	Lilac
355	Pale Violet
056	Gypsy Lavender
356	Middle Lavender
057	Lavender
357	Royal Lavender
058	Deep Lavender
358	Rose Indigo
059	Indigo
359	Medium Violet
060	No Color Blue
360	Clearwater
061	Mist Blue
062	Booster Blue
362	Tipton Blue
063	Pale Blue
363	Aquamarine
064	Light Steel Blue
364	Blue Bell
065	Daylight Blue
365	Tharon Delft Blue
066	Cool Blue
366	Jordan Blue
067	Light Sky Blue
367	Slate Blue
068	Sky Blue
069	Brilliant Blue
369	Tahitian Blue
070	Nile Blue
370	Italian Blue
071	Sea Blue
371	Theatre Booster 1
372	Theatre Booster 2
373	Theatre Booster 3
072	Azure Blue
073	Peacock Blue
074	Night Blue
374	Sea Green
075	Twilight Blue
076	Light Green Blue
376	Bermuda Blue
077	Green Blue
377	Iris Purple
078	Trudy Blue
378	Alice Blue
079	Bright Blue
080	Primary Blue
081	Urban Blue
082	Surprise Blue
382	Congo Blue
083	Medium Blue
383	Sapphire Blue
084	Zephyr Blue
384	Midnight Blue
085	Deep Blue
385	Royal Blue
386	Leaf Green
086	Pea Green
087	Pale Yellow Green
088	Light Green
388	Gaslight Green
089	Moss Green
389	Chroma Green
090	Dark Yellow Green
091	Primary Green
092	Turquoise
392	Pacific Green
093	Blue Green
393	Emerald Green
094	Kelly Green
095	Medium Blue Gray
395	Teal Green
096	Lime
097	Light Gray
397	Pale Gray
098	Medium Gray
398	Neutral Gray
099	Chocolate

ELS also stocks Lee & Great American Market filters.
For more information please call one of our sales agents.

Rosco Diffusion

Available in 24" x 50' rolls
& 20" x 24" sheets.

100	Frost
101	Light Frost
102	Light Tough Frost
103	Tough Frost
104	Tough Silk
105	Tough Spun
106	Light Tough Spun
111	Tough Rolux
112	Opal Tough Frost
113	Matte Silk
114	Hamburg Frost
115	Light Tough Rolux
116	Tough White Diffusion
117	Tough ½ White Diffusion
118	Tough ¼ White Diffusion
119	Light Hamburg Frost
120	Red Diffusion
121	Blue Diffusion
122	Green Diffusion
124	Red Cyc Silk
125	Blue Cyc Silk
126	Green Cyc Silk
127	Amber Cyc Silk
132	Quarter Hamburg Frost
140	Subtle Hamburg Frost
160	Light Tough Silk
162	Light Opal
163	Powder Frost

Marking Pencils	
White Grease Pencil	144-051
Black Grease Pencil	144-060

Roscosleeves

Roscosleeves allow color filters to be added into any fluorescent-lit environment. These rigid, seamless, clear plastic sleeves slide over standard T-8 or T-12 fluorescent tubes, and an insert within the sleeve lets you add your choice of color. Use them to tint architectural lighting or decorate and accentuate specific areas with deeper hues.

Roscosleeve, for Lux	
48" Long Sleeve, T-8	406-001
48" Long Sleeve, T-12	406-000

Rosco ThermaShield

Help your color media last longer by using Rosco's ThermaShield. Used to lessen the adverse effects of heat on performers or products, ThermaShield is an optical grade polyester film with a proprietary vacuum-deposited multi-layer coating on one side. When properly used, the coated side of Rosco ThermaShield reduces infrared heat without affecting the visible light or brightness of a fixture, and it can be used with the full range of Rosco or other color filters.

ThermaShield	
12" x 12" Sheet	403-190
20" x 24" Sheet	403-193

Rosco Heat Shield

A protective transparent filter of extremely heat stable polymer, specially designed to deflect heat, this product should be placed between the lens and color filter, allowing space for the escape of heated air. Each sheet is 2 mils thick.

Heat Shield	
20" x 24" Sheet	144-081
24" x 50' Roll	044-084
48" x 25' Roll	144-085

Rosco UV Filter

A virtually transparent filter specially coated to absorb ultraviolet rays, this material allows for less than 10% transmission below 390 nanometers.

UV Filter	
20" x 24" Sheet	144-081
24" x 50' Roll	044-084
48" x 25' Roll	144-085

Fade•Not® X•Film

Specify Fade•Not X•Film for long life in places where all other gel fades (turns clear). Fade•Not X•Film lasts up to 30 times longer than standard theatrical media. If your gel turns brown/black specify Dichro•X™ for permanent life. Pricing varies by filter size.

Specify by Filter Mfg. #+Size	POA

Dichro•X™

Hybrid dichroic and borosilicate Fade•Not glass, invented by Special FX™ Lighting, creates great color choice with amazing consistency, strength and value.

This design prevents dichroic edge distortion, eliminating unwanted colors, or it can be made to enhance halation by enriching and controlling the colors. Pricing varies by glass size.

Specify by Filter Mfg. #+Size	POA

Fade•Not® Glass Lenses

Fade•Not Glass Lenses are readily available in hundreds of colors and may be specified with wire mesh safety screen and cable. Pricing varies by lens size.

Specify by Filter Mfg. #+Size	POA

Apollo Custom Patterns

Apollo Design Technology, Inc. first opened its doors as Apollo Custom, Inc. in 1992 and quickly became the largest producer of quality custom gobos in the world. Its dedication to service, combined with a selection of gobo sizes for most any lighting fixture on the market today, make Apollo the ideal choice for all your custom requirements.

Helpful Ordering Hints

Apollo's art department is skilled at turning your artwork into the highest quality gobo you could want. Follow these guidelines for the best results.

- As you look at your artwork, try to imagine the black portions of your black and white image as light areas.
- Black & white art yields best image.
- Remember: The smaller the gobo, the more the image must be reduced.
- You'll incur no art charges when sending bridged black and white camera-ready art at 300 dpi.
- If you provide us with camera-ready non-bridged art, a moderate charge will apply for sizing and bridge.
- If your artwork is not camera ready, provide images as large as possible on an 8½" x 11" maximum size page.
- If sending art via e-mail or disk, use .eps, .ai, .tif, or .jpg files in PC format.

Custom Stainless Steel Gobos

Reproduce any logo or design onto a stainless steel gobo in just two days, 20mm to 12" in diameter.

Original Pattern ..... **APO-MC-ORI**

Additional Copies ..... **APO-MC-DUP**

Custom Glass Gobo

Glass gobos are great for color logos or black and white photographs.

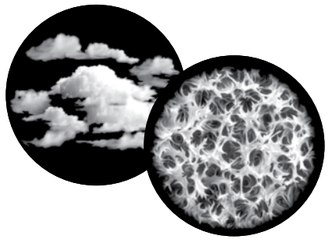
Original Pattern ..... **POA**

Additional Copies ..... **POA**

Apollo Glass Gobos

Limited only by your imagination, these high quality glass gobos feature an incredible resolution of 10,000 dpi, with four standard and custom varieties. Contact ELS today for a complete Apollo Design catalog. Prices will vary by type and size.

Apollo Design SuperResolution Gobos



Apollo Design ColourScenic Gobos

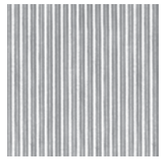
Apollo Design Two Colour Dichroic Gobos

Apollo Design One Colour Dichroic Gobos

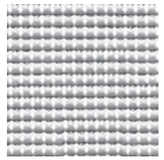
Apollo Textured Glass

Now there's another way to add rich depth to pattern projections! Apollo's tempered, Textured Glass is available in eight designs to be combined with gobos in the channel holders of ellipsoidals for that extra touch. Pricing will vary by size.

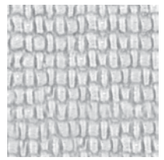
Striped



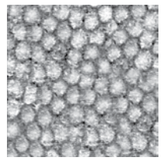
Checkerboard



Weave



Honeycomb



Rain

Floral

Frost Light

Frost Heavy

Apollo Smart Move

Apollo's Smart Move® is the next generation in gobo moving effects technology. In addition to simple multi-direction rotation, the Smart Move® by Apollo offers an array of individual gobo movements ideal for a broad range of applications without the need of a control board. The built-in, pre-programmed microprocessor provides the "smarts", while the rotary switches and speed control dial allow the user to easily set the desired effect and its speed.

The Smart Move® gobo rotator holds one or two "B" round gobos, secured by a reversible retaining ring. Belt driven for quiet operation while being powered by a rugged 24V power supply standard with the unit. The unit's black, powder-coat 18 gauge steel provides rigidity and durability. The variable speeds range from 0 to 21 rpm plus rotary switches for easy setting to desired effect.

Smart Move	APO-SMOVE-000
Smart Move Jr.	**APO-SMOVE-JR**
Smart Move DMX	**APO-SMOVE-DMX**

GAM TwinSpin II

The TwinSpin II variable speed gobo rotator rotates two "B" size patterns in opposition to each other at speeds of 2-15 rpm by plugging into a dimmer or with the speed control option. It slides easily into the drop-in slot of an ellipsoidal, where patterns are held in place with its stainless steel retaining rings. TwinSpin II offers four motion options: rotate one pattern, twin spin two patterns, mixed doubles make areas appear and disappear, or add a "still" into the pattern holder of your fixture. The rotating patterns will animate your "still" to make leaves rustle, flames dance and stars twinkle.

TwinSpin II Inline Speed Control	
for Source Four Jr. Ellipsoidal	**GAM-5584**
for Source Four Ellipsoidal	**GAM-5574**
TwinSpin II Variable Speed Model	
for Source Four Jr. Ellipsoidal	**GAM-5580**
for Source Four Ellipsoidal	**GAM-5570**

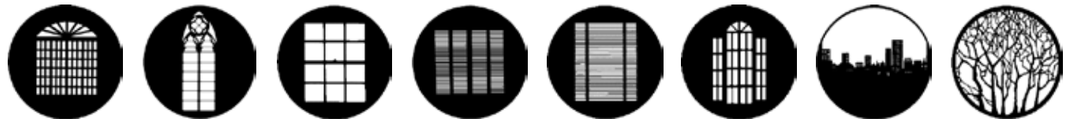
Rosco VORTEX 360 Dual Rotator

The VORTEX 360 Dual Rotator is one of the most versatile accessories ever offered to lighting designers. And its incredibly low price makes it possible for any theatre or venue to have several copies available to cover any space or meet any need. The sleek unit houses two carefully crafted gear drives, both made of stainless steel, to assure long term operation. A single silent motor drives both gear assemblies. Even at full speed, the VORTEX 360 Dual Rotator is so quiet it can be used anywhere in a theatre or venue - including front-of-house positions in a theatre or grids on low ceilings in restaurants or stores. This Plug and Play model of the VORTEX 360 does not require any additional power supply. The transformer/plug that comes with it can be plugged directly into a wall outlet. Or, using a low cost adapter, into any convenient dimmer.

Vortex 360 Dual Rotator	ROS-205-830-000-120

The Great American Pattern

The Great American Pattern is a custom-designed template for use in ellipsoidal spotlights. Made of high quality, durable stainless steel. These patterns are tough enough to stand up under intense heat at the gate. The best-selling GAM Patterns are shown on these two pages. ELS stocks GAM "Standard Size" (outside diameter: 101.6mm x 114.30mm, image area: 75mm), please specify Pattern Number. 167-180



French Doors 201 · Church Window 202 · Double Hung Window 203 · Shutters 204 · Venetian Blind 205 · Bay Window 208 · City Skyline 211 · Bare Trees 215

Bare Branches 216 · Jungle Leaf 217 · Realistic Leaves 218 · Dense Foliage 220 · Hanging Branches 221 · Small Breakup 222 · Large Breakup 223 · Cloud 1 224

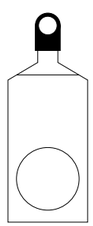
Cloud 2 225 · Cloud 4 227 · Cloud 5 228 · Cloud 6 229 · Cloud 7 230 · Realistic Stars 231 · Large Stars 232 · Radial Lines 235

American Flag 237 · Star Breakup 243 · Super Stars 244 · Evening Star 245 · Cobblestones 248 · Bars 249 · Spring Branches 251 · Cloud 8 256

Cloud 9 257 · City Lights 261 · Cross 265 · Sunburst 266 · Fire 267 · Lightning 268 · Fireworks 270 · Radial Breakup 271

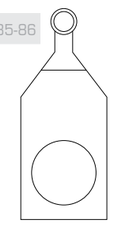
Glass Pattern Holder

Source 4 (Iris Slot).....XPH-G
Source 4 Jr.....XPH-GM



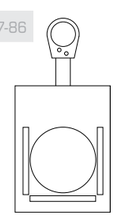
Sandwich Holder ROS-135-86

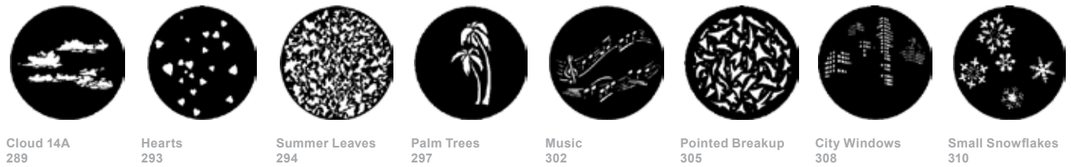
Burns cooler to reduce warping and extend the life of any "B" sized steel pattern.



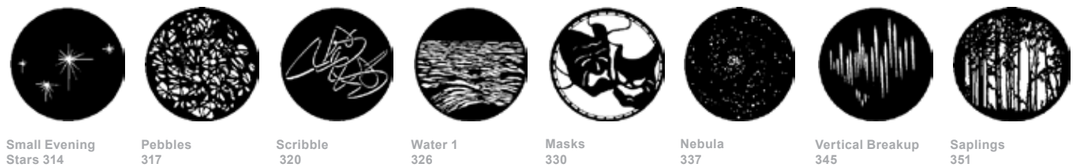
Iris Slot Holder ROS-157-86

Use with glass gobos, steel, or a combination of both; slides into larger iris slot.



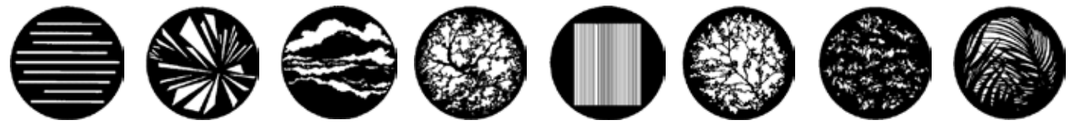


Cloud 14A 289 · Hearts 293 · Summer Leaves 294 · Palm Trees 297 · Music 302 · Pointed Breakup 305 · City Windows 308 · Small Snowflakes 310



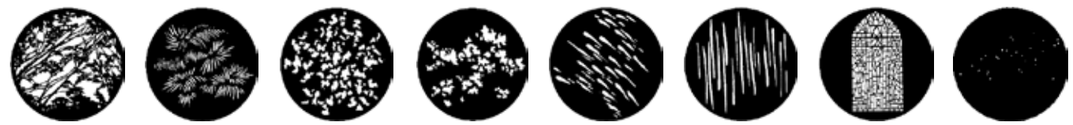
Small Evening Stars 314 · Pebbles 317 · Scribble 320 · Water 1 326 · Masks 330 · Nebula 337 · Vertical Breakup 345 · Saplings 351

Sparkler 356 · Starry Night 358 · Palm Leaves 362 · Miniature Breakup 368 · Alternate Lightning 369 · Leaf Breakup 370 · Open Foliage 379 · Pin Spot B 382



Lines 391 · Shatter 398 · Cloud 18 508 · Twisting Branches 517 · Vertical Blinds 519 · Open Branches 520 · Foliage Pattern 530 · Tropical Foliage 533

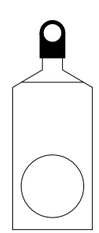
Georgian Windows 536 · Passage 540 · Oblique Blinds 541 · Paisley Breakup 542 · New York Night 543 · Pointillism 2 548 · Summer Branches 551 · Star Cluster 555



Hillside Branches 575 · Foliage Breakup 578 265 · Foliage Breakup 579 · Foliage Breakup 580 · Diagonal Breakup 581 268 · Linear Breakup 582 · Stained Glass Window 583 · Tiny Stars 587

Source Four Pattern Metal Holder

Source Four (A)..... PRX-PHA
Source Four (B)..... PRX-PHB
Source Four Jr. ..... PRX-PHM



Donut

6.25" Source Four.....PRX-6DN
7.5" 6" Ellipsoidal.....PRX-7DN
12" Source Four 10˚.....PRX-12DN
14" Source Four 5˚.....PRX-14DN

Rosco Supersaturated

Brilliant, dye-like colors formulated for dilution with substantial quantities of water while retaining binder strength. Works on most any scenic surface including muslin, plastic and metal. Dries to a completely matte, non-reflective finish. Priced per quart, unless otherwise specified.

Supersaturated Paint	
Iron Red	425-206
Red	425-226
Spectrum Red	425-250
Ultramarine Blue	425-230
Green Shade Blue	425-238
Magenta	425-244
Purple	425-266
Yellow Ochre	425-210
Chrome Yellow	425-252
Orange	425-256
Raw Sienna	425-260
Burnt Sienna	425-222
Raw Umber	425-218
Burnt Umber	425-214
Chrome Green	425-234
Pthalo Green	425-242
Prussian Blue	425-269
Black Velour	425-280

Rosco Off-Broadway Paint

A full range of theatrical colors that allows anyone to paint drops and sets with true scenic paint, no matter how limited the budget. This versatile vinyl acrylic paint works on a variety of surfaces and is ready for use right out of the bucket, or it may be diluted to stretch your paint budget. Priced per gallon, unless otherwise specified.

Off-Broadway Paint	
White	425-408
White 5 Gallons	425-402
White-White	425-410
White-White 5 Gallons	425-404
Black	425-412
Black 5 Gallons	425-406
Yellow Ochre	425-414
Burnt Umber	425-416
Raw Umber	425-422
Burnt Sienna	425-420
Raw Sienna	425-418
Ultramarine Blue	425-424
Fire Red	425-426
Deep Red	425-428
Orange	425-430
Emerald Green	425-432
Chrome Oxide Green	425-434
Lemon Yellow	425-436
Purple	425-438
Magenta	425-440
Pthalo Green	425-442
Sky Blue	425-444
Pthalo Blue	425-446
Gold	425-448
Silver	425-450
Clear Gloss	425-802
Clear Flat	425-804

ELS also carries a wide range of UV paint products.
Call one of our sales associates for more information.

Rosco Acrylic Glazes

These clear acrylic mediums are designed to be diluted with water and applied as an overcoat to a painted surface or mixed with scenic paints for additional binder strength. Compatible with all of Rosco's paint systems and most other water extendable paints, they also serve as a binder for dry pigments.

Acrylic Glazes	
Clear Gloss Gallon	425-802
Clear Gloss 5 Gallons	425-800
Clear Flat Gallon	425-804
Clear Flat 5 Gallons	425-806

Rosco Tough Prime, White

Tough Prime is a unique water-based primer that adheres to just about any surface, including PVC pipe, aluminum, foams and plastics, as well as muslin, wood and even foam core. This quick drying, acrylic emulsion primer dries to a tough, durable coating which can be painted over with any paint and is excellent for both interior and exterior use

.

Tough Prime	
Gallon	425-808
5 Gallons	425-810

Rosco Chroma Key Paint

Rosco Chroma Key Paints are formulated for high luminance values and color saturation in keying effects. The acrylic colors provide one-coat coverage for use on nearly any surface. Priced per gallon container; also available in 5 gallon container.

Chroma Key Paint	
Chroma Key Blue	425-600
Chroma Key Green	425-604

Rosco TV Paint

Specifically formulated for sensitive contrast requirements of standard television systems, this versatile acrylic latex paint can be applied to nearly any surface and comes ready to use right out of the bucket. TV White and TV Black are completely intermixable and allow the user to achieve intermediate grays. With one-coat coverage, it dries to a matte, non-reflective finish and allows for easy touch-up. Priced per gallon; also available in 5 gallon container.

TV White	425-675
A neutral gray that meets the 60% reflectance specification of maximum transmission brightness.	
TV Black	425-679
A rich, matte black meeting the 3% reflectance specification of minimum transmission brightness.	

Rosco Glitter

Based on 1 mil double metallized polyester film cut into 1/64" hexagonal flakes, Rosco Glitter is uniquely suited for production applications. The chips are brilliant under stage lights and can be sprinkled on or mixed directly into Clear Gloss or Flat Acrylic for easy application. More colors available; please call ELS.

Glitter	
Silver, 4 oz	425-854
Silver, 1 lb	425-878
Gold, 4 oz	425-856
Gold, 1 lb	425-880
Red, 4 oz	425-860
Red, 1 lb	425-884
Royal Blue, 4 oz	425-864
Royal Blue, 1 lb	425-888
Green, 4 oz	425-868
Green, 1 lbt	425-892

Rosco Fluorescent Paints

Vivid, vinyl acrylic colors that are visible and brighter in normal light, and fluorescent under ultra violet or black light. Note: White fluoresces light blue under black light, while the Invisible Blue is clear under normal light and fluoresces light blue under black light. Priced per quart; also available in gallon containers.

Fluorescent Paint	
White	425-720
Red	425-722
Orange	425-724
Yellow	425-726
Green	425-728
Blue	425-730
Invisible Blue	425-732
Pink	425-739
Gold	425-736

Krylon Spray Paint

A wide range of spray paint colors for scenic and other uses. Priced per 12 ounce aerosol can.

Spray Paints	
Silver	427-018
Glossy White (OSHA)	427-022
Glossy Black (OSHA)	427-026
Ultra Flat Black	427-028
Smoke Gray	427-032
Semi-Flat Black	427-036
Regal Blue	427-040
Hunter Green	427-046
Cherry Red	427-050
Sunset Orange	427-060
High Heat White	427-012
High Heat Black	427-014

Scenic Lay-In Brushes

Especially suited to scenic use, these brushes are made with extra long bristles to hold large volumes of paint for smooth, even flow.

Nylon Bristles	
6" wide x 1¼" thick	426-250
4" wide x 1" thick	426-252
3" wide x 1" thick	426-254
2½" wide x 5/8" thick	426-256
2" wide x 9/16" thick	426-258
China Bristles	
7" wide x 2" thick	426-275
4" wide x 1¼" thick	426-279

Rosco Ultimatte Paint

Rosco Ultimatte Paints were designed in conjunction with the Ultimatte technical staff to meet the requirements of their keying effects systems. Super Blue is a purer blue designated for use in film production. These vinyl acrylic paints can be used on nearly any surface. Priced per gallon; also available in 5 gallon container.

Ultimatte Paint	
Ultimatte Super Blue	425-650
Ultimatte Blue	425-654
Ultimatte Green	425-658

Scenic Liners

Quality, professional paintbrushes for design and detailing.

Scenic Liners	
¼" Liner	426-200
½" Liner	426-202
¾" Liner	426-204
1" Liner	426-206
1¼" Liner	426-208
1½" Liner	426-210
2" Liner	426-212
7-piece Liner Set	426-218
3" Foliage Brush	426-214

Tape Products

Gaffer's Tape

An industry standard, Gaffer's Tape has a flexible backing and a high tack adhesive to conform and adhere to most any surface. Used in a variety of applications, Gaffer's Tape has a non-reflective surface and comes in many colors. Sold per 2" x 60 yard roll.

White	303-002
Gray	303-006
Black	303-010
Red	303-014
Yellow	303-018
Green	303-026
Blue	303-022
Brown	303-034

Electrical Tape

Black vinyl-plastic electrician's insulating tape, these ¾" x 66' rolls are sold in plastic cans. Available in other colors.

3M #35 Black Electrical Tape	303-206

"Spike" Tape

This cloth-backed tape is used for blocking, or marking sets, scenery, or actor's locations, in theatres, TV studios, or on motion picture sets. Available in many colors. Spike tape is priced per ½" x 60 yard roll.

White	303-078
Black	303-082
Red	303-086
Yellow	303-090
Blue	303-094
Green	303-098
Brown	303-102

Masking Tape

This light duty natural colored paper tape with an easy-tear backing is used to mask (cover) areas while painting.

1" x 60 yard	303-106
2" x 60 yard	303-118

Safety Tape

This black/yellow striped safety tape is OSHA approved to identify possible hazards. Sold per 2" x 18 yard roll.

Safety Tape	303-286

Double Face Tape

This tape is adhesive on both sides, cotton-backed for easy removal, and is commonly used to secure floor tiles. It measures 2" x 27 yards.

Double Face Tape	181-335

Glow Tape

This heavy duty adhesive on one side with cloth backing. It glows in the dark after exposure to light and is often used for marking locations of scenery and props on stage floors, and for outlining elevated surfaces to prevent accidents.

1" wide x 10 yards	303-366
2" wide x 5 yards	303-270

Board Tape

Easy to write on, used for labeling.

White ¾" wide	303-138
White 1" wide	303-162

Friction Tape

This all purpose black cloth tape is sold per cello wrapped ¾" x 60' roll.

Friction Tape	303-186

C47's/Clothes Pins

Often used to attach color filters to location fixtures on-site.

Clothes Pins 40 piece bag	144-200

Rope Products

Tie Line

Black 1/8" x 48' hank	305-092
White 1/8" x 48' hank	305-095
Black 1/8" x 3000' roll	305-086
White 1/8" x 3000' roll	305-089

Jute Rope

5-ply twine used for tying cables to light pipes.

1020' Cotton roll	305-062

Lash Line/ Sash Cord

Cotton line used to tie flats together with scenic hardware. Sold per 100' hank, unless otherwise specified.

1/4" diameter White	305-074
5/16" diameter White	305-080
3/8" diameter White	305-083
1/4" diameter Black	305-070
3/8" diameter Black	305-083
1/4" diameter x 1200'	305-087

Manila Rope

1/4" x 1200' spool	305-035

Black Trickline

Strong, thin black nylon line used to conceal special effects from audience view. Black trickline is used against dark backgrounds and is priced per 50 yard roll.

40 lb. Test	144-033
70 lb. Test	144-036
108 lb. Test	144-039

Clear Trickline

Strong, thin monofilament used to conceal special effects from audience view. Clear trickline is used against white and colored backgrounds and is priced per 100 yard roll.

30 lb. Test	144-042
60 lb. Test	144-045
110 lb. Test	144-048

Rosco Dance Floor

Rosco's portable Dance Floor allows you to turn any area into a dance hall or club. It is made of non-reflective vinyl and has a nonskid finish so that your dancers can concentrate on dancing and not worry about slipping. Rosco's dance floor is reversible with a different color on each side, and remains strong and durable despite its light weight. Available in a variety of colors, dance floor is perfect for touring shows or mobile clubs. Rosco Dance Floor weighs about 245 pounds per 131¼' roll, and is 63" wide. Sold per roll or by linear foot.

Black/Gray Rosco Dance Floor

Full Roll	350-020
Per linear foot	350-000

Black/White Rosco Dance Floor

Full Roll	350-030
Per linear foot	350-010

Rosco Floor Tapes

Ideal for securing portable dance floors because they leave no residue, Rosco Floor Tapes are priced per 48mm wide x 25m roll.

Floor Tape

Black Vinyl	303-230
White Vinyl	303-234
Gray Vinyl	303-238
Double Sided	303-174

Roscotiles

These 3' x 3' square tiles are designed for use in television studios or other applications where a smooth, even, and durable floor is a must. Only 1/8" thick and weighing 12 pounds each, floor tile can withstand a static load of 125 pounds per square inch.

These highly durable Roscotiles stand up easily to normal wear and tear, but should damage occur, only the affected tile need be replaced. This keeps you from worrying about having to replace large sections of your floor in order to correct only small areas of damage. Roscotiles will provide you with a flat, smooth studio floor, filling all your technical needs while offering a clean, pleasant looking surface to meet your aesthetic needs as well.

Roscotile

White	350-300
Black	350-310
TV Gray	350-320

Rosco Floor Cleanser

Rosco's Floor Cleanser is an easy-to-use granulated chemical compound developed to clean vinyl dance floor surfaces. Priced per 5 lb. bag.

Floor Cleanser

5 lb. bag	350-050

GAM-Floor

Especially useful for Chroma-Key effects, durable and flexible, GAM-Floor can last for months and is easy to remove when you're done. As easy to install as it is to remove: just peel and stick and when you're done, peel it up and toss it away. You can lay down 1,000 square feet in about half an hour, and as soon as you put it down, it's ready to be walked on. One layer of GAM-Floor covers any color with no drying time, no second coat, no messy clean up, no smell, no wait time to walk on the floor.

Can be applied to concrete, vinyl, wood, painted surfaces, glass, plaster and more, whether its a vertical or a horizontal surface. GAM-Floor is a 4-mil thick vinyl finish that is dyed through and through. The glosses are shinier than the matte finishes, which are softer than you can achieve with any paint.

Matte colors are available in Chroma-Key Green or Blue, Clear (Frosted), White, Black, and Yellow. Gloss colors come in Clear, Gray, Black, Yellow, Red, Green, Blue, Silver, or Gold. GAM-Floor is sold by the 48" x 100' roll (400 sq. ft.).

GAM-Floor

Roll Price Varies by Color	POA

James Thomas Engineering

James Thomas modular aluminum trussing has long set the standard for the entertainment industry. Manufactured of 6061 T-6 in the USA and of 6082 T-6 aluminum alloy in the UK, all Thomas Truss is engineered to the highest American and British standards. Main chords are constructed of 2" O.D. with 1/8" wall, and the diagonals are constructed of 1" O.D. tubing.

12 x 12 General Purpose

20.5 x 20.5 General Purpose

Pre-Rigged Truss

James Thomas Engineering General Purpose Truss

Thomas General Purpose Truss is known and relied upon throughout the world for its versatility. It takes on any task, from public addresses to light mounting purposes, with ease.
This ideal all-around truss from Thomas combines great strength with flexibility of use. Without a doubt, this series is the most practical, general purpose truss system on the market.
Designed specifically for maximum lightness, portability and strength, it is ideal for conference and exhibition type set ups, as well as for smaller scale entertainment purposes.

20.5" x 20.5" General Purpose Truss	
10' General Purpose Truss	JTE-B40-00
8' General Purpose Truss	JTE-B40-01
5' Long Section	JTE-B40-02
2-way Corner Block (20.5"G.P)	JTE-B44-06
4-way Corner Block	JTE-B44-07
6-way Corner Block	JTE-B44-08

12" x 12" General Purpose Truss	
10' General Purpose Truss	JTE-B07-00
8' General Purpose Truss	JTE-B07-01
5' General Purpose Truss	JTE-B07-02
2'6" General Purpose Truss	JTE-B07-03
2-way Corner Block (12" G.P.)	JTE-B47-05
4-way Corner Block	JTE-B47-06
6-way Corner Block	JTE-B47-07
Flat Pivot Section	JTE-B47-08

James Thomas Engineering Pre-Rigged Truss

This double-hung 30" x 26" truss has been produced to meet the need for a lighter, more versatile modular base unit, combined with great strength and portability. Fully welded construction design based on light but heavy-duty tubing, provides maximum strength and ease of handling, while its free running casters provide easy maneuvering. Standard Thomas lamp bars are incorporated featuring fast, easy access to all electrics. Assembly and break down is speeded up by the use of multi-pin connectors and bolts. The complete lighting bar rig lowers for quick focus adjustments and gel fitting, with its fixtures on 15" centers for maximum focusability. Modular units are available in a number of different lengths to give greater flexibility for set up design. This truss is the ideal system for reliable performance, lightness, strength, easy access, and the fastest possible load-in/load-out time.

30" x 26" Pre-Rigged Truss	
91" Pre-Rigged Truss-Empty	JTE-B03-01
91" Pre-Rigged Truss with 12 Par 64's	JTE-B03-12
60.7" Pre-rigged Truss- Empty	JTE-B03-02
4-way P.R.T. Corner Block	JTE-B43-01
P.R.T. Universal Pivot Section (0-270˚)	JTE-B43-02
P.R.T. to 20.5" GP Type Adapter	JTE-B43-06

James Thomas Engineering Ground Support Systems

The Ground Support System was produced to meet the requirement of lifting a box grid system and still retain towers within a truss structure configuration. Thomas has made this possible by modifying its corner block, and by incorporating a unique double roller sleeve system. For the One Ton System, the 12" x 12" tower passes through and allows the tower's base to be very compact, retaining total maneuverability and adjustment via rollers and jacks. The Two Ton is a 15" x 15" tower system for longer spans and heavier loads. CM Lodestar chain hoists are the recommended lifting mediums for both Ground Support Systems.

12" x 12" One Ton Tower System	
2'6" Tower Truss	JTE-B01-04
5'0" Tower Truss	JTE-B01-03
10'0" Tower Truss	JTE-B01-00
12" Base Plate	JTE-B42-00
Tower Hinge Section 2m high with Super Forks	JTE-B35-01
Roller Beam for 12" Tower	JTE-B41-02
Sleeve Block for 12" Tower/P.R.T.	JTE-B41-03
Sleeve Block for 12" Tower G.P. 12 x 12, 18 x 12	JTE-B41-06
Sleeve Block for 12" Tower G.P. 20.5 x 20.5	JTE-B12-65
Adjustable Outrigger (Max 74")	JTE-B40-03B

15" x 15" Two Ton Tower System	
2'6" x 15" Tower Section w/bolts	JTE-B02-03
5' x 15" Tower Section w/bolts	JTE-B02-02
10' x15" Tower Section w/bolts	JTE-B12-65
Tower Base for 15" and 12"	JTE-B42-00
15" Tower Hinge Section (78.74" high) with Super Truss Forks)	JTE-B38-01
15" Roller Beam (915mm long)	JTE-B42-02
Sleeve Block for 15" Tower/P.R.T.	JTE-B42-05
5' Outrigger, 4 per tower	JTE-B12-65

Rigging+Staging Box Truss

James Thomas Engineering Super Truss Systems

Thomas Engineering has completely rethought truss design to encompass the ever changing demands of the touring industry. Consequently, its Super Truss design features double end connectors, which are oriented so that the truss elements are unisex (they can be used either way). Super Truss also saves truck space because of its very high strength in relation to its size, and also the space saving design of the corners: for the 2-way corner, only a connecting gate is required to brace between the outer fork connectors; while the 3-way corner only requires a connecting gate and two square connecting plates; and the 4-way corner requires just two square connecting plates. In order to use the Super Truss with towers, two sleeve connecting plates with roller wheels are required with one or two uprights depending on the number of truss connections. Thomas Super Truss is readily available in 20.5" x 20.5" box, 20.5" x 30" box, 18" x 12" box, 12" x 12" box, and also in a 20.5" x 30" Pre-Rig style with casters.

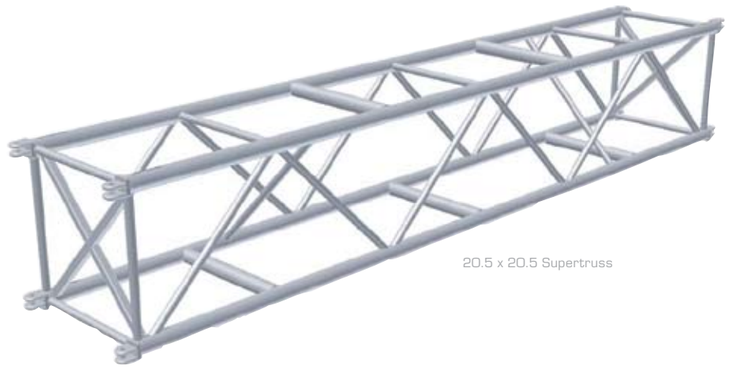
12 x 12 Supertruss

20.5" x 20.5" Super Truss	
2'6" x 20.5" Super Truss	JTE-B13-60
5' x 20.5" Super Truss	JTE-B13-64
6' x 20.5" Super Truss	JTE-B13-63
8' x 20.5" Super Truss	JTE-B13-62
10' x 20.5" Super Truss	JTE-B13-61
12' x 20.5" Super Truss	JTE-B13-60
60˚ Corner Gate with lifting point for 20.5" Super Truss	JTE-B13-00
90˚ Corner Gate for 20.5" Super Truss	JTE-B13-01
135˚ Corner Gate for 20.5" Super Truss	JTE-B13-03
3-way/120˚ Gate for 20.5" Super Truss	JTE-B13-04
3-way Gate w/Lifting Point for 20.5" Truss	JTE-B13-05
Vertical Connect Fork w/ Nuts +Washers	JTE-B13-06
Horizontal Connect Fork (2 per unit)	JTE-B13-07
Square Support Plate for 20.5" Super Truss	JTE-B13-08
12" Tower Sleeve Plate for 20.5" Super Truss	JTE-B13-09A
15" Tower Sleeve Plate for 20.5" Super Truss	JTE-B13-09B
Super Truss to General Purpose 20.5" x 20.5" Adapter Plate	JTE-B13-11
Super Truss Lifting Point for 20.5" Super Truss	JTE-B13-12

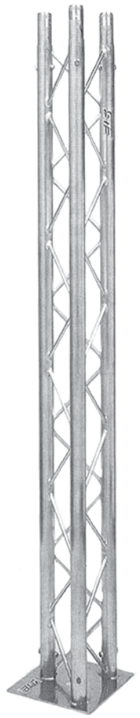
12" x 12" Super Truss	
2'6" x 12" Super Truss	JTE-B12-65
5' x 12" Super Truss	JTE-B12-64
6' x 12" Super Truss	JTE-B12-63
8' x 12" Super Truss	JTE-B12-62
10' x 12" Super Truss	JTE-B12-61
12' x 12" Super Truss	JTE-B12-60
12" Super Truss 60˚ Corner Gate	JTE-B12-00A
12" Super Truss 90˚ Corner Gate	JTE-B12-01
12" Super Truss 135˚ Corner Gate	JTE-B12-03
12" S.T. 3-way/ 120˚ Gate	JTE-B12-04A
12" S.T. 3-way Gate with Lifting Point	JTE-B12-04B
12" Super Truss Square Support Plate	JTE-B12-08
12" S.T. to 12" G.P. Adapter Gate	JTE-B12-11
Lifting Point for 12" Truss	JTE-B12-12

20.5" x 30" Super Truss	
5' x 20.5" x 30" Super Truss	JTE-B29-64
6' x 20.5" x 30" Super Truss	JTE-B29-66
8' x 20.5" x 30" Super Truss	JTE-B29-62
10' x 20.5" x 30" Super Truss	JTE-B29-61
90˚ Corner Gate for 20.5" x 30" Super Truss	JTE-B29-01
3-way/ 120˚ Gate for 20.5" x 30" Super Truss	JTE-B29-04
3-way Gate for 20.5 x 30" Super Truss w/Lift Point	JTE-B29-05
20.5" x 30" Super Truss to HD 30" x 20.5" Adapter Gate	JTE-B13-11

Use 20.5" x 20.5" Sleeve plates and 20.5" lifting points.



20.5 x 20.5 Supertruss



2-way
90˚ Apex-Up

2-way
90˚ Apex-In

2-way
120˚

2-way
135˚

3-way
90˚ Left

3-way
90˚ Right

3-way
120˚

3-way
135˚

3-way
Vertical

3-way
Horizontal

4-way
90˚ Left

4-way
90˚ Right

Triangular Versatruss

The Versatruss Triangular System is a lightweight, multipurpose truss that can be configured into a limitless number of shapes and sizes. This flexible system can be used in many different applications from retail exhibit displays to architectural installations, or for easily hanging and mounting lightweight loads. Pricing on all lengths and junctions include spigots and fixing bolts, which may vary with application.

Versatruss 2" 3-Chord Triangular Truss	
1m (3'3") Triangular Truss	VRT-2TRI-1M
2m (6'7") Triangular Truss	VRT-2TRI-2M
3m (9'10") Triangular Truss	VRT-2TRI-3M
4m (13'1.5") Triangular Truss	VRT-2TRI-4M
5m (16'5") Triangular Truss	VRT-2TRI-5M
6m (19'8") Triangular Truss	VRT-2TRI-6M
12" x 12" Base Plate for Triangular Truss	VERT-2TR-BASE

Triangular Junctions+Accessories

Versatruss 2" 3-Chord Junctions	
2-way, 90˚ Apex-Up	VRT-2TR-2W-90U
2-way, 90˚ Apex-In	VRT-2TR-2W-90I
2-way, 120˚	VRT-2TR-2W-120
2-way, 135˚	VRT-2TR-2W-135
3-way, Vertical	VRT-2TR-3W-V
3-way, Horizontal	VRT-2TR-3W-H
3-way, 90˚ Left	VRT-2TR-3W-90L
3-way, 90˚ Right	VRT-2TR-3W-90R
3-way, 120˚	VRT-2TR-3W-120
3-way, 135˚	VRT-2TR-3W-135
4-way, 90˚ Left	VRT-2TR-4W-90L
4-way, 90˚ Right	VRT-2TR-4W-90R

Versatruss Accessories:	
Short Corner Brace	VRT-ACC-SCB
Long Corner Brace	VRT-ACC-LCB
End Cap	VRT-ACC-EC
Outrigger	VRT-ACC-OR
Quick Release Pin	VRT-ACC-QRP
Connecting Insert	VRT-ACC-CI
Reinforcing Collar	VRT-ACC-RC
Graphic Clip	VRT-ACC-GC

Columbus McKinnon
Chain Hoist

Columbus McKinnon Lodestar Chain Motors

Modified for inverted operation with 50' lift to travel at 16' per minute. Price includes swivel hook, chain bag and pickle switch.

Chain Hoist (1 ton)	301-420
Chain Hoist (½ Ton)	301-422

Skjonberg Chain Hoist Controllers

Skjonberg Chain Hoist controllers come built into a compact road case, and all connection are easily made on the face plate. The HCS-400 controls four chain hoists, for control of eight chain hoists choose the HCS-800.

HCS-400 Motion Control	301-428
HCS-800 Motion Control	301-430

Chain Hoist Feeder Cables

Feeder cables provide both power and control from the control unit to the hoist. These cables are compatible with stock connectors on both the CM Hoists and Skjonberg Controllers.

50 Amp Power Feeders	
100' Power Feeder Tails	301-424
100' Power Feeder Cable	301-425

30 Amp Power Feeders	
100' Power Feeder Tails	301-426
100' Power Feeder Cable	301-427

Skjonberg HCS-400

Accessories

Chain	
3' Deck Chain	305-520
2/0 Chain, per foot	305-113
4/0 Chain, per foot	305-116
6/0 Chain, per foot	305-119

Wire	
Stove Pipe Wire 18 Gg	305-122
Bailing (Tie) Wire 16 Gg	305-125
6" Pin Wire 1lb. .092 diam	302-014
6" Pin Wire 5lb. .092 diam	302-017

Aircraft Cable, Galvanized	
1/16" diameter, per foot	305-324
1/8" diameter, per foot	305-128
3/16" diameter, per foot	305-322
1/4" diameter, per foot	305-323

Aluminum Sleeves	
1/16" per each	305-325
1/8" per each	305-326
3/16" per each	305-327
1/4" per each	305-328

Thimbles, Galvanized	
1/8" per each	305-329
3/16" per each	305-330
1/4" per each	305-331

Cable Clips, Drop Forged	
1/8" per each	305-321
3/16" per each	305-333
1/4" per each	305-334

Screw Pin Anchor Shackles, Galvanized	
3/16" per each	305-400
1/4" per each	305-401
5/16" per each	305-402
3/8" per each	305-403
1/2" per each	305-404
5/8" per each	305-405
3/4" per each	305-406

Turnbuckles, Drop Forged+Galvanized	
1/4" x 4" Jaw/Jaw	305-425
3/8" x 6" Jaw/Jaw	305-426

Spansets	
18" Spanset	301-433
3' Spanset	301-432
6' Spanset	301-434
9' Spanset	301-436

3/8" Rigging Steels	
5' Length	301-439
10' Length	301-440
20' Length	301-442
30' Length	301-443

Power+Control Cable	
50' 14/4 SOWA Cable	301-435
75' 14/4 SOWA Cable	301-437
100' 14/4 SOWA Cable	301-450
125' 14/4 SOWA Cable	301-452
150' 14/4 SOWA Cable	301-454

JBL AE6315 Speaker

Beam Clamps	
Two Ton Beam Clamp	305-535
One Ton Beam Clamp	305-540

Miscellaneous Rigging Hardware	
60' Block+Fall Set, 3:2	300-800
5/8" Pear Ring	305-525
Air Wall Hanger	305-545
Burlap Feed Sack	305-550
3' Deck Chain	305-520

Filled Sandbags	
15 lb. Butterfly Sandbag	306-400
35 lb. Easy Lift Sandbag	306-412

ELS is proud to offer a wide variety of audio and video products for any application - from microphones and headphones to mixers and amplifiers, to specialty products like assistive listening devices. And with projectors, screens and playback devices, ELS can truly be your single source for lighting, audio and video.

Whether you are looking for a portable PA system, or a church looking for installed audio, our sales agents can help you assemble a system that is right for your needs and budget. ELS also offers an extensive line of projectors and screens for your video needs. From simple presentation products to more complex installed systems, ELS can provide you with a single source of information and products designed to meet your requirements.

Call your ELS Sales Agent today for more information on any of our audio and video lines. From AKG microphones to Whirlwind snakes, from Barco projectors to Zenith plasma screens, ELS has it all!

AUDIO

Speakers: JBL, Electrovoice, EAW, Bose, TurboSound, Mackie, Behringer, Architectural Acoustics, Soundtube, Bogen, Anchor Audio, Mach

Amplifiers: Crown, QSC, Bogen, Mackie

Processors: Media Matrix, DBX, Klark Technic, Aphex, Lexicon, QSC, Rane, Shure, Crown, Ebtech, Radio Design Labs

Mixers: Midas, Soundcraft, Allen & Heath, Mackie, Behringer, Architectural Acoustics

Microphones: Shure, Sennheiser, Audio Technica, Countryman, Electrovoice, Crown

Playback Devices: Tascam, HRB, Bogen, Denon, Sony

Duplicators: Telex, Tascam

Headphones: Sennheiser, AKG, Audio-Technica

Personal Monitoring: Shure, Aviom, Hear Technologies, Furman Sound

Intercoms: Clearcom, Telex, Production Intercom, Anchor Audio

Assistive Listening Systems: Listen Technologies, Sennheiser

Language Translation Systems: Listen Technologies, Sennheiser, Telex

Listen Technologies Assistive Listening Systems

Shure Microphones

VIDEO

Projectors: Eiki, Barco, Sanyo

LCD + Plasma Monitors: LG Electronics, Norcent

Televisions & Monitors: Zenith, LG Electronics

Rack Mount Monitors: Marshall, Stealth Computers

Projection Screens: Da-Lite

Switchers & Video Signal Processing: Analog Way, Kramer, Extron, Sierra Video Systems, FSR, Hall Research Technologies

CCTV: Vicon

Barco Video Equipment

Eiki Projectors

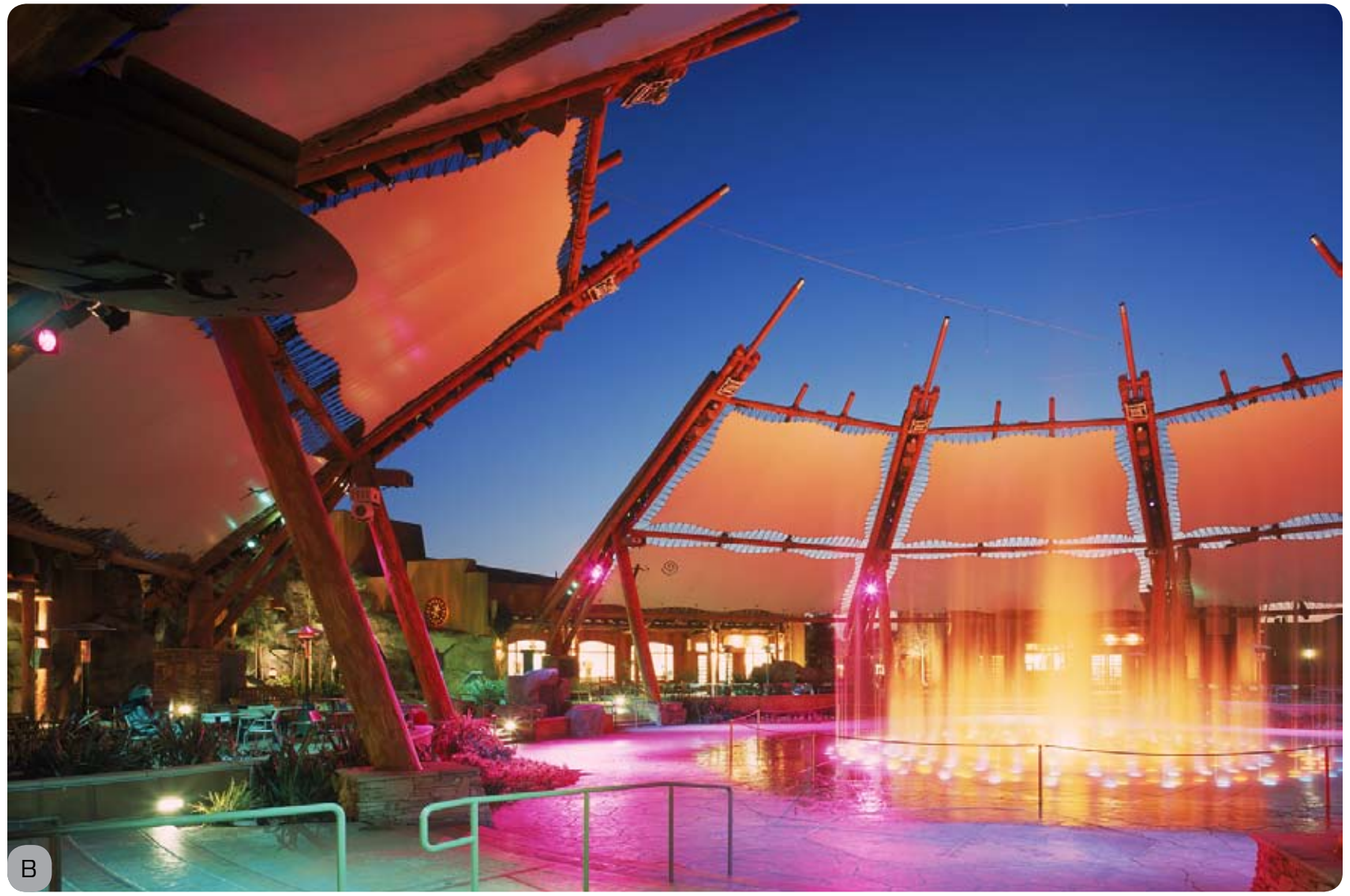
Systems Integration

Systems Integration is defined as assembling complete systems out of many components so that all work together. ELS Systems Integration Department is much more than this. A full service dealer of theatrical lighting, audio and video, ELS can assist you in designing your system, assist your designer in assembling the pieces of your system, work with your electrical contractor to complete your installation, provide training on the use and maintenance, and provide service after the sale.

Among our many satisfied customers are houses of worship, theaters, retail stores, casinos, nightclubs, and entertainment venues. Our systems include dimming and control, architectural lighting systems, logo projection, distributed audio, video projection systems, classroom audio systems, assistive listening systems, theatrical lighting systems, curtains and track, and specialty lighting, audio and video systems.

Our team can help you turn your idea into a reality, no project is too large or too small! Contact ELS Systems Integration Department today for a consultation.

A. Viejas Casino Construction
B. Viejas Casino Completed
C. Crystal Cathedral
D. Kodak Theater
E. Santa Anita Racetrack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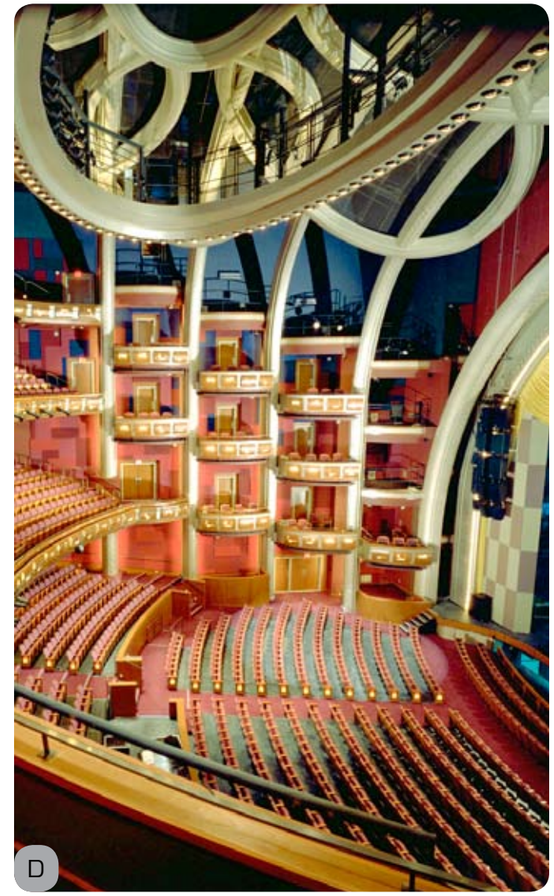
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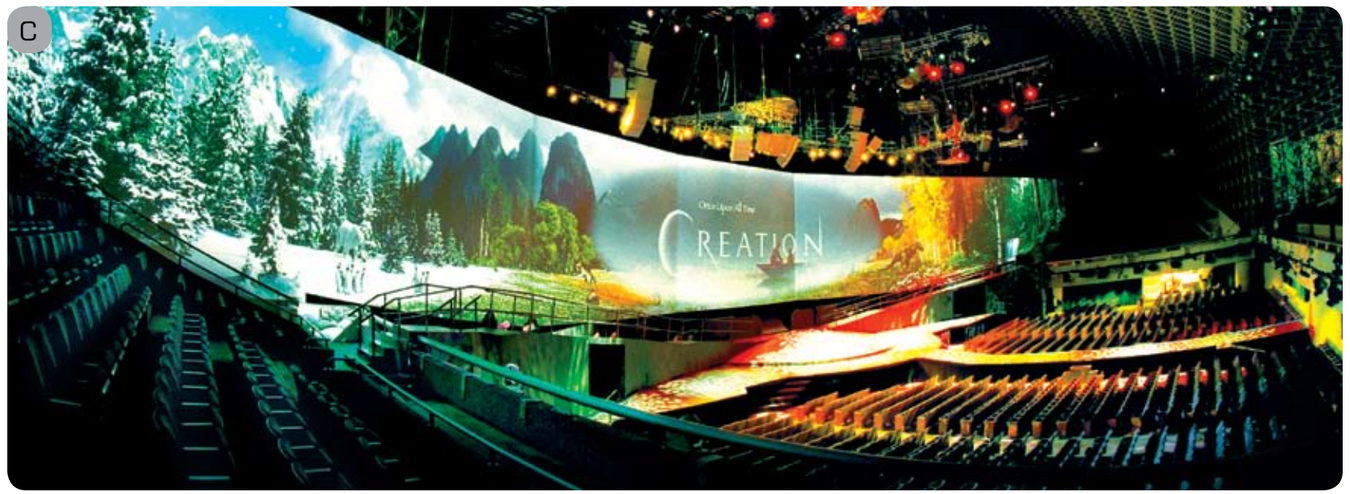

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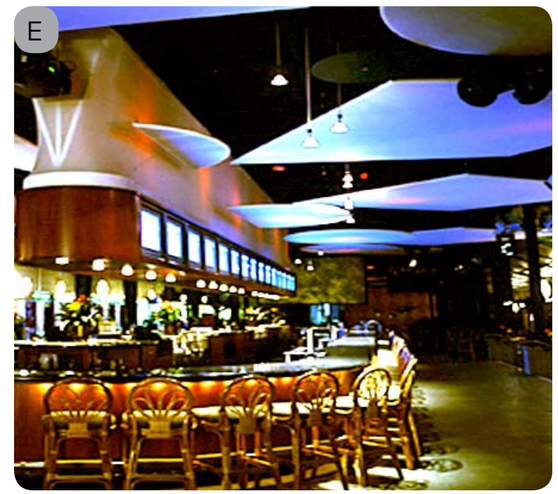
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